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confusad, hyparexplained

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Editar

Daputy Editor Rik Haynes

Davign Editar

Coatributers

Advarticing Manager Gerry Williams

Daputy Advartisias

Advartising Productis n

Publishar

#### SPECIALS

CD-I BATFANTASY

Pepe Moreno, New York carlocrist, contributor to Heavy Metal and Thursder Cals (amongst many others), is designing the ultimate interactive comic experience.



CHIE VIETNAMANIA ...... 28 Not content with Platoon, Ocean are now storming into Vietnam with The Lost Patrol ACE followed them into the Jungfe.

ACES HIGH .....17

ACE s undercover agent infiltrated the CES Show in Las Vegus and returned with a sizzling expose of technoporn, featuring tomorrow's technology from loday s international developers.

BLASTS FROM THE PAST .... 87 ACE meets the first ever and of-level nasty in the definitivo guide to she ot-em-up history



and of shoot-on ups and a long, long X-Qut - first of a nano

FLASHBACK ....

The decade that created computer entertainment draws to an end as we present the final episode of the greatest story over told

MICRO-PRATCHETT .....28

We've absolutely no excuse for putting Terry Pratchett in the magazine, except he makes us laugh, writes great books (Colour of Magic, Discworld senes...), and .er. uses a computer

MEET THE MAESTROS ......81 The ACE Conferences could chango your whole attitude towards games; but only if you turn up

## HYPER HORROR!



# GAMES

no-holds-barred This reviews include the surprisingly good Pro Tennis trom Ublsoft and the surprisingly disappointing Harley Davidson from Mindscape. and we've introduced the new 1990's PIC technology to make ACE's reviews pages look even better than ever.

AUSTERLITZ Mirrorsoft......40

CONQUEROR Rambow Arts.....34 ENTERPRISE 16-8htz..... 48 FULL METAL PLANET infogrames ...36 HARLEY DAVIDSON Modscape ...... 41 HERO'S QUEST Sierra-On-Line ...... 45 KELLY X 16-8112..... 48 PRO-CALIFORNIA GOLF 16-8ttz ..... 48 PRO TENNIS Ubrsoft......52 ROADWARS 16-8ktz......48 SIDESHOW ..... European Electronic Zoo SPACE HARRIER II Grandslam ...... 39 SPACE ACE Emore ......42 SPEEDBOAT ASSASSIN 16-8htz......48 WORLD DARTS 16-8ttz......48



WIN

To celebrate the launch of The Lost Patrol, Ocean are giving away a free

## APOCALYPSE NOW...

It's started. Games-programming technology is reaching critical mass. The Big Software Meltdown is about to begin...It's all to do with the development of hypermedia and its games derivative: the hypergame. You've already read about Cosmic Osmo in ACE. Now you can check out:

Pepe Moreno, the New Yorker whose interactive comic is living proof of his claim that digital data is the entertainment medium of the future.

The theories and facts behind hypermedia. CDJ. INV. buttons and much

The theories and tacts behind hypermedia, CD-I, DVI, buttons, and much more in the ACE Hyperguide

The beginnings of the UK software revolution: which companies are leading the race to develop new games technologies? And if that's not enough, just wait till next month, when we bring you exclusive location reports direct from the USA in a bumper American Issue.

## HYPER ISSUE!

#### HYPERCONFUSED?

Somewhere, someone is pouring millions of dollars into the development of games that will soon take over the world. Find out why, what, where, and when,



Alastair Scott Godard: pinneering the development of Cl entertainment at Compact Solutions. The machine is a Philips CDI unit as produced to ACE issue 24

#### 

BAT-FANTASY!

Many thanks to DC Comics

for helping us arrange our

interview with Pepe Moreno

In the US. Batman: Dioital

Justice, the comic, will be

available in the UK in Fahru-

ary: tha MacIntosh CD-ROM

versions should be out later

free

Feigus McNeil is Psychologiler and Compact Solithon's Guinness Book of Racords. We reckon these products are the spearfhead of a revolution to entertainment software tachnology

GIVE US A CLUE

You don't have to be a bug boy to hyper if up CFL are developing Britain's first ever hypergama generator.



#### GAMEPLAY

TAKE COVER!
Software houses open fire with news of new releases,

#### REGULARS

### NEWS.....

Land hol Ocean finally launches the superlative Rainbow islands, Hard Drivers gel extra tracks, plus all the latest whapers from the world of advanced computer entertailment.

LETTERS 17
ACE readers apen fire on a variety of topics.

exclusive subscribers' newsletter.
IN THE PINK.......91

The ACE Stockmarket Britain's only games chart that goes by authoritative opinion, and not hyped sales, the ACE Crossword the ACE Charry, in fact, a plethora of pleasures for your phiklas.

**OCEAN GET IT TAPED - P31** 

VCR - AND a great collection of 'Nam movies. Grab a pen and get yourself into the jungle.



# **ACE NEWS**

P AY BATMAN IT BY BUILT FUR IN DE THE BUILD N A GAME

# BATMAN ON CDI

An ACE exclusive by Rik Havnes in New York



Barrens Digital Justice C 1969 DC Camica Inc. All Rights Reserved

Warnar Bross. and Sony are currently needstring a deal to produce JC Comics\* - a subsidiary of Warner Bross. - new cyberpunk Batman Digital Justice come on CDI. The agresament may also include other Warnar Bross. CDI projects in the future, which could be till-line with Princa music. Clint Eestwood Dirty Harry movide or Time magazina - all of which are a part of the giant Warnar Bross. corporation.

The completely computer extends to the completely computer extends to be a computed to the control of the computer extends to the computer extends the compu

ACE visited Pepe Morene at his Marihetten should in New York for en exclusive internew with the person who "sails the future teleproalions", the creator of the world's first hypercomic—the article starts on pege 23. For a full explanation of CDI and hypermedia tunit to page \$7.

#### AT THE END OF THE RAINBOW...

Ocean is releasing the home conversions of the farlastic Rambow Islands Tatlo compo later this month en all major micro formats.

monim en al majo i mcro tormats.

This 934-rated sequel to Subble Booble was written by Graffigold for Microprose last year – the ST version was reviewed beck in ACE 24. Unfortunately for Microprose the enginal deal with Tatto lef-through and it was unable to release the excellent micro cer-

Now Ocean has signed an agreement with Tatio securing the home computer lights. In the game and has bought Graffigold's Randow is lained computer code from Micropiose for an undeclosed sum rumquired to be in the region of £50000.



## ACE NEEDS

How would you like to experience the thills and spills of working en ACE under the Presect Trident job placement scheme? We've looking for a talented, enthusiestic and friendly young person to help us in all areas of magazine production, from administration to journalism The ideal candidate will be able to leem quickly, work under their own intrative and under pressure. and possess an in-depth knowledge of Advanced Cempriter Entertainment. Gel willing to. ACE PROJECT TRIDENT, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU



Sega hes launched two new controllers for its Master 8-bit console. The Handle Controller is a matt-bleck two-handled deck with





## Rin

the test position in a

iging for pole position in brand Priz



age Ruster Stapahot, Appe It'n as proof as the Paul Neumann nursiel rapid line switches for £39 95. The £9 95 SG Commander Is an ungrade for the hormal control paid with an added rapido sold Sega Master owners can also look lorward to three new games. Assault Chy, Slapshot, RC Grand

Prox later this month

### SYMBOLICS SIZZLERS

The ACE newsdesk – which doubles up as Rik's desk for all but the dey we go to press – recently had the pleasure of receiving e sturning brockure from Symbolics. This company provides professional 20+30 guaphic ammelion systems to the likes of TV and advertising companies. So just feest your eyes en what its systems can produce.



#### GOTTA VIDEO. WANNA CONSOLE?

Action Screenotey, the video mag azine, is releasing a £9.95 VHS video buyers-gurde to consoles including the Nintendo NES, Ninfendo Game Boy, Sega Master System, Sega Megadrive, PC Ename, Konix and Alari Lynx pamedecks

#### ACE IN USA . Check out page 18 for a full

report on the US Winfer CES show in Las Vegas.

. Sega is rumoured to be working response to the phenomenally successful Nintende Game Boy. the newly-faunched Alari Lyrox and



Golden Age on the Sego 16-bit Gen

the just-announced NEC portable-PC Engine handheld consoles. The Sega console could have a wealth of excellent Sega com-ops cenverted to it immediately fike Out Run, Space Harrier, Power Drift, Afterburner end Galaxy Force Ne once or release details are cur-

rently available. . Atari Corp. and Atari Games, the computer and com-op comparres that split in 1984 when Warner Bres, sold Atari Corp to Jack Tramel, have got back together in a deal to convert Atan Games' Tengen com-op tries to Atan Corps Lynx handheld celeur consale Confissed? You shouldn't be. What this boils down to is forthcoming Lynx cenversions of Hard Drawn' STUN Runner and Cyberball Other possible conversions could include a regular 'whose who' of com-op classics. Gaundet, Road Blasters, Star Wars, Empire Strikes Back, Return of the Jech, indiana Jones and the



#### ACE ON THE TURE















Temple of Doom, Super Sprint, Vindicators, Xybots, APB, Road Runner Escape from the Planet of the Robot Monsters and

Rolling Thunder . Mean Streets is a tasty-looking VGA PC graphic cyber-adventure set in the year 2033 from Access Leaderboard Software It's also

available to: the C64 . Sega has just converted its Golden Axe hack'n'slash contop onto the 16-bit Genesis

(Megadrive) console. . Seka has brought out Icon Simulabon's Shadowgate Macintosh

. Double Diagno is being develoned for the Netendo Game Boy handheld console by Tradewest.

. Tengen has released Rolling Thurder, Vindicators and Road Runner comop conversions on the Nintendo NES

. If you buy a pack of 10 Sony 3.5° floooy disks you sel a tree "interactive demo" of ABC's Monday Night Football software game.

. Data East is releasing EAs populas Battle Chess on the Nintendo NES. . The award for weindest game Mile in America at the moment

must surely be a toss-up between Hudson Soft's Princess Tomato in the Salad Kingdom and Kemco-Selka's The Bugs Burny Birthday Bhand

· Activision is bringing on Malby Brach Volleyball on the Nintendo Game Boy.

. Micro Games USA has launched a range of Game & Watch decks based on some popular NES names the Super Mano Bips. Donkey Kong Jr. and Zekta

. CSG tragesoft is developing Dragon's Law to the Nintendo

## **ACE PREVIEWS**

the Amiga has a max of 220, and A preview in ACE is more than just a screenshot and a caption: we an average of only 40. actuaty set our hands on the games as they're being deval-

#### **OVER THE** HILL AT 21?



Crundalam's coin-up comoraion of Segn's Scrumble Spirits on the ST

Rob Hit is the 21 year-old programmer of the ST and Amiga versions of Scramble Spirits at Teque software development out fill He ongoally started out writ ten bonng 'C' programs tor big biz maintraines, but was made sion took him three months to develop, Arniga Scramble Spirits took Eye days! Although Hill Immediately mentions the fact that everything - disk loader, keyboard/jovstick/mouse reader. text writer ST program logic, etc. - was already "in place", all that needed to be rewritten were some of the graphics and sound routines. The Armiga version runs a lot faster than its ST counterpart - 25 frames a second as opposed to 17 This was accomatched through the use of the Amga's blitter in the sprite routires. The original com-op version ct Scramble Sprits had a max no, of 4096 sortes priscreen

#### **ESOTERROR**



lan Hailing, the designer of Ocean's Lost Patrol (take a took at page 28 to: a recon preview), is also working on a fantasy shool'em-up catled Esoterror Some very stunning graphics are supplemented by a spet-driven version of Space Harried Harting is still working on the crincial gameolay portions of the game and would love to hear your comments and suggestions, write to: lan Haring 4 Aberdeen Road, Redland, Bristot 8S6 6HJ







#### **BLASTS FROM THE PAST**

1982

1985

1987

# **HY-PERFORMANCE**

ACE CHECKS OUT TWO PIONEERING HYPERGAME DEVELOPERS

Could the games programmer soon be a thing of the past? ACE meets two development teams who believe that in the future games will be coded by designers. using powerful hypermedia engines instead of machine code and assembler routines.

ergus McNerll is a name that may ring a few bells Back in the days when people still played lext advenbiles. Fergus was one of the lew game designers to make maximum use of The Quill adventure generalor, producing sames like

The Boggst, Robin of Sherlock, and Bored of fine Rines.

New he's working on Psy-And why are they impotent? Britan s second hypergame (the about hypermadia principles in first into the shops this issue in our Hyperquide on will be Herewith the Claes from or a hypergame is a product CRL - see pages that contains lots of different 61/62). The game elements linked together to has been created form a network of yelep harnes. using the same sound samples, lexbuil inforsoftware developmation and even discrete system (EGADS) as Herewith the Claris, but games enthusiants at the Fergus laced a fai moment are first the poor and greater challenge.

The scenario for the CRL game was already in exislence; Fergus had to create his ewn. This isn't as simple as it First, vou're faced with

smilar problems le a film drector Visual material has to be recorded, digitised, and editwithin the game. This moolives location shooling, I

expense and considerable has-Then you have to change roles and become a sound engineer. For the true multimedia experience, you've gol to assemble your seund data (all digitsed, in this case). Finally, you take on the role of systems programmer and use EGADS to kind all the parts (pgether

Of course, all that assumes that to start with you were wear ing your script development hat, sloryboarding the whole game Easy, eh2

No. it's not easy, says Fer gus, but the system (EGADSI is good and the potential is enormous For a long time now, systems have been tailored towards pre-defined finished products, but EGADS is limitless. That's the up side. The down side is that being given so much freedom can be inghtening at first - but challengmg at the same time

'Systems like this are also very easy to use. It only takes you Ien mnutes to learn - but when it

You can End gut more

The big feldowns los

required to pur logather a

decent product. All their is set to

change, however, as soon as

CD ROM becomes more widely

eccepted. Commodore si recent

ennouncement of an Amiga

with CD-ROM together with

the low cost Headstart CD-

ROM PC are therefore particu-

larlary (Important for gemesters

We have the software - soon

comes le dieam-OSMIC FACTS ing up the best Games the Cosmic Osmo have ways to use the system's potental. yet to make a big impact in the the whele process UK, but It's only a matter of becomes very chaltime What do they involve? lenging "

> ITS A RECORD Alasdar Scett Godard software developer at Perg-

amon Compact Salutions (PCS -Gumess panel) and designer on the Gunness Rock of Records project, feels much the same way addut the new sys

seen nothing yel. he asserts. But the trouble is we don't know what you are going to see! Whatever hapnens. however. going to haue in rotheric from scratch eur ideas about com-DUTE

slow to catch on. the molications of hypermedia for games development are begroung to sink in. Stand by for hyperactivity ..

### **PSYCHO KILLER**

Psychokiller is designed to be a real-bring herror "its a Jehn Carperter type of game, with slight gus Yerri cai breaks dewn in the sinister happenings lead to the appearance of a psycholic killer





Due to a shortage et staff in the casting department, the psychotic killer actually bears an uncanny McNeill The game is still under but will feature erpund 100 digitised streens legether with rinmeiens digitised

One thing that's missing is animetion, since that is yet to be incorporated in the EGADS system. As soon as it is, Fergus hepes to stiempt a fully animated hypergame, using 'rotoscope' lechniques let the movement. Originally used in the Lords of the Rings animaled film this Involves digitising live subjects who are

### **GUINNESS** IS GOOD FOR YOU

Mirrorsoft New there's a



mamenas of some superb Ing Defender of the Grown

se well-known is that Mirrorsoft share offices with a company announced the astablishment of a new multimedia development laboratory, following a £5m investment from Mirrorsoft Into PCS. This could be the most significant news for UK gamesters this

Basically it means that for the first time a LIK software compa-Beek el Records Accerding to Mirrorsoft base Jim McKanochie the decision to heed for CD technology was ', very similar to the decision we look fore years age to concentrate on 16-bit seftwere

paid off. We re mek We'll be bring you recular undates on gy end its implicalions for games, dur-

the time, but if has

12 fances claves of frence: 2 bonus rounds on your jet amazing sound effects, music a ci most authentic conversions ever.







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# EXCLUSIVE to subscribers

#### ACE CONFERENCES

ACE will also be acting as a communications link between you, the readers, and software horses during 1990. White setting np is serious of ACE conteils encise in which resident will be given the appointing to marel software houses and talk to them about their games, and you don't have to be potal sittings on an informal basis. Lunch will be supplied and admission will be tree to be subsidiaried, and an admission of the setting the supplied and admission will be tree to the supplied and admission will be tree to be subsidiaried, and a valentate bootup subsidiaries will also successful and supplied and subsidiaries and a valentate to succeed in the magazines, so pure out off poly our may in the mag as a bornell.

#### InterfACE

Subscribers will incover, completely free of change, a spool quantum newsiteting put together enclosively for them by the ACE floar This will being you dotate of some of the logical that we can't, for resource of space or serve or (\*) method in the magazine stell Subscribers will have the chance to combrinto to of they with WMA ECE every month, and if land ACE every filter mortles, you'll ready be all the cutting edge of the computer adiatrantment are outline.

# THE ACE

Subscribe – and the ACE Team will plunge you into a maelstrom of discovery and excitement. Reporting direct from the heart of the entertainment inferno, the ACE Team have ensured that their readers have been the FIRST to find out about many startling new developments in the games-playing world. Here's what you've been missing...

#### THE TRAIL-BLAZING PAST

ACE was launched in 1988 by a small learn of dedicated computer enterteement journalsts. They wented to produce e-games imagazine Intel would for the first time, aposel to people who nosily took their gemee seriously and who, like the ACE Toam, wanted to go boyond game swinder into the world of edvanced entertainment technology.

One year later and the magazine was outselling its rivals and being voted Megazine of the Yeer. In recent months, ACE has brought you exclusive coverage of



Hypergames, the game style that began with Manhate and Cosmic Osmo and is paving the way for CO-I enter-tainment—defined and described for the first Illine in ACE.

The Flare Micro the state-of-the-ant games herdware that later became the hoart of the Kontx console revealed for the Irst Illine acclusively in ACE.

Interedive Compect Diek Entertainment the Philips CD I nnit, prenswed axclusively in ACE and due for release in the next law months at under £1000.

FM Towns in 32-bit Jepanese games monster with a built in CD ROM that cames a mean AfterBurner conversion and a staggering technical specification.



# **E STORY**

## pACE setting

One of ACE's prime roins over the nex One of NASA parties from over one state the years in to company for wider accep-lance and coverage of computer enter-tainment. We've set up a broadcasting vorting party to laise with TV and Radio on behalf of our renders and we'll be

The ACE Challenge a £20,000 challengs to the hardware industry to give us a dedicated games machine which can deliver Iruly advanced compuler entertainment. The first of the ACE Chaffengers will be giving us the full spec at their record breaking micro in the next issue at ACE.

Interective Video Tapa a new games standard in the USA that is turning videe tape recorders into powerful interactive games avalence

and much much more,...

#### THE GLORIOUS FUTURE

By subscribing to ACE, you inhen! a gree! ludition of in-depth coverage of computer and electronic entertainment, from the latest com-op blockbuster to hypergemes and MIDI music. Here are just some el the tepics you'll be able le catch up on in forthcom-

Born In the USA an exclusive leek at the lated state-al-like-art games coftware currently under development in the States lot like new CD-I and DVI game systems.

Beyond Telris on ACE exclusive report from the heart of Russia en Soviel comput-

Inside the Machine full technical details on the latest generation of intelligent coin-op

Total War: an in death examination of wargame psychology and the soltware both established and under development. It'd could make this the lestest growing numes erea of 1990.

plus a host of other exclusive, in-depth articles on the cutting edge of computer enterteinment

# New fACEs

Ever since EMAP bought ACE, we've been preparing for ACE's best ever year...



We've new got Steve Cooke, the enginal editer who, in conjunction with Peter Connor was responsible for the early success of the magazine. Pete will be supporting the magazine on a regular basis as a valued freelance consulteri

Steve knows the entertainment industry backwards. Not only was he one of the original Person and film. His knowledge of these ether Industries will bring ACE readers exclusive highlights in the rapidly emerging world of CD-t and multi-media

Rik Heynes Rik is ACE's deputy editor and the man whe really keeps his linger on the pulse of the computer games scane. He was previously the Reviews Edi tor tor the weekly magazine New Computer Express end his background el investigative jour naism will be bringing ACE readers the telest

lation for breaking the biggest stones tirst



Laurence Spotford Laurence was chesen from over 150 highly quallfied applicants fingliding many temiliar names in The games business) because, as the new Reviews Editor, he demonstrated to us all that he was nel only a highly experienced games player, but also a superb organiser. Each menth, he'll be coerdinating reviewers liem around the country (and even frem abroad) bringing you the authentalive reviews you expect from Britain's leading games magazine





New that we've get Jim as our Destan Editor, we'll be ensuring each month that you nel only get the best coverage but that the design of the magazine also meets your demanding expectations. Jim's an expert in dissiston publishing systems and Is rapidly developing an individual slyle lei the magazine using the latest state-of-the-art DTP technology. The topic in itself you'll be finding out more from Jim ever the next few months as he lets you into some

Jim Willie

# WRITE TO REPLY

MORE THOUGHT PROVOKING FEEDBACK FROM ACE READERS

#### OLD PILOTS NEVER DIE...

In response to Richard Harmson's letter in issue 28. I would just like to say that I also find that F-16 Combat Priot is a rather "tacky" program with awkward controls Interceptor, although now fairly old is a fair superior game. It may nel be such a malistic simulation. but it is much easier to play with more accessible controls and a short, precise instruction manual which is easily comprehended The sound in Interceptor is much better and the external views of the plane are a good function. I always have found Digital Integration's light simulations a bit complex, even their first release. Fighter Pilol on the 8-bit machines I am sure that there must be other ACE readers with a similar opinion, and that this is not just a minority case.

Robert Stevens, Truco

OK. feir comments it would appear that we are bearring to identify two proups as far as flight syn fans are concerned those who want a sminlator to payric the performance of the ancraft as closely as possible, and those who prefer a less realistic (but possibly more accessible) game, with additional leatures tke out-of-cockpt views. There is something to be said for both camps

#### ...THEY JUST PLAY FLIGHT SIMS!

Your reply to A Turville's letter on commercial flight simulators (issue 28) was ill-informed and inaccurate

The problem as I see it is that boring have missed the approach by a few hundred nautical miles The fact is that the act of fiving certainly no game. Faced with a good simulation, which, not being a game, has no stated goal to be nousned, gamers do not have the loggiest idea what to do with it -

I snagest that A Triville should go for the Shb-logic simulafor , the only simulator remotely near the real thing

You are obviously makere of Sub-logic's forthcoming Arlme Transport Pilot which will include Boeng 737, 747, 767 and Airbus

Tony Green, Hyde

# **ACE MACHINE**

Thanks for your artisce, which I'm since will be of great interest to A Tursille and other maders it would appear that the time is nght for an in depth look at available light sms by a real piol. So watch the the pages of ACE w the near future for institlet

#### **REVIEWS REVIEWED!** Here is a chart of you reviews IT

11) Never Merd Eugene Lacey 95% [2] The Unlouchables

Laurence Scotlord 93% (3) Dances The Edge Eugene Lacey 28%

(4) from Levid Ubisaft Laurence Scotland 96%

Engene Lacey Indranapolts 500 Electronic Arts

80% (7) Carlicl 16-Bitz

(8) Bad Company 19) Operation Thursderboll Ocean

(10) Mechwarrion

instead of one.

Why can't you prol more reviews as good as the Nevtr Mind review and not like the I would like to congratulate you on your was games special, I

I agree with John Wood's let ler lissue 291 that each review should have two comments

Gerred Blyth, Bath

PPS Anyone wanting to join the Save the Blue Smartie Founda-

Thanks for your constructive criticism - I'm sure that a number of software houses will be oute pleased to see the tables turned for once. As regards two comments in reviews, see our reply to Mr Wood's Jetter We haven'll entirely ruled out the possibility of trying this at some stage in

#### **COUPÉ CAUTION**

Belore I start I mnsl congratulate you for producing the best computer magazine currently avail able. The many articles present a varied, interesting, and unbiased magazine. I am also glad to hear about the new features which are

Bul what I am writing about is

PRIZE

the SAM Coupe By the time you

receive this I will probably have recreved my new Coupé, but after hearing about other people's concern for the Coupe | left | must put The SAM Corpe seems to be an excellent and awesome

machine, but will it be folly exploited? Many companies have promised to support the Compé, but will we be seeing software software houses?

The 256k memory shorld allow far larger and more complex programs to be converted to the Conpé, and it would be good to see high profile classics also con-

Let's hope that you will review and preview the Coupe's software I will still buy ACE because of its superior, mature ronmalism and quality articles. I would be interested to hear your response as I view your responses as good advice that I can trust.

Jason Smallwood, Yorkshire Thanks for your praise - we are glad you are enjoying the magaare so much, if you check out the pages this month you will see that some of our promised new features have already been

implemented - more are on the I can understand your concern about the Coupé, but to be perfectly honest with you, it is not really possible to predict exactly what the resoonse to the machine will be like. The first thing to bear in mind is that the machine's Spectrum compatibility means that there are literally thousands of extremely good games already available for the machine, and many more being refeased each month.

Of course, if you wanted a Spectrum you would have bought one, and not a SAM Software specifically written los the machine is not likely to be in evidence (apart from MGT's own packages) for some time. Most companes will probably wait to see how sales of the machine lake off before they commit themselves. When that software does appear it is more than likely trum titles which have been souped up to take advantage of the SAM's advanced features

In short then, you haven't got yourself a write elephant, but you are probably going to have to be patient as lar as software sup-

#### THE TEXT ADVENTURE IS DEAD ... Laurence Scottorif's comments in

have.

after

ploc

MACH!

shieu

the opening paragraph of his Future Wars review (Issue 28, p.55) were ", the text adventure seems to have finally died a death." The keyword there is finally, I can sust see the massed ranks of augade reviewers dancing a ag around the office

Then he goes on to cite Level 9 as an example of the death of adventures! Level 9 have from time to time spokes about them writing arcade games. Then movme away from the gerre is for their own reasons, not simply because of the "death" of the text

Magnetic Scrolls and Infocom's illustrations are head and shorlders above the graphics of Future Wars, and coupled with the lexi, create a much better atmo-

And symples, more sophistical. ed interaction? The igy of a lext based adventure is finding onli how an object works not simply OPERATE-ing if from a menul

I'm sorry to Delphine/Parace if I'm appearing to be hard on Future Wars I'm some it is a fine garte What I'm profesting abord is the feeling that compriles software must grawtate towards the centre I can only hope this letter will start a debate as to what knot of industry we want, whether we want a choice of games with their own pechas divisions of style, or whether we wish to follow the doc-

## SHORT 'N' SWEET

A few of the best zany bits...

Staven Hopkins, Leighton Buzzerd

Smon Howard, Cornwall

Visita - whul? Shoutch I you be reading New Scientist? You did not

Paul Navior and Nevil the Egg, Mansfield

The Big 101

Mark Russall, Southport

trine of "one style, one product, Jay Las, The Netherlands

Martyn Westwood, Interactive Technology

one customer"

\*Firstly Martyn, I think you do reviewers a slight disservice to imagine us leaping about the office celebrating the demise of the Text Adventure. My comments in the review were intended merely as observations - not as a personal expression of refel i agree with your comments on the qualities of lextbased games if have encoved many myselfi, but I also feet that games like Future Wars have

opened up the gerre to a lot more people. What do other readers think? Meanwhile here

#### ...LONG LIVE THE TEXT ADVENTURE!

What a disasted Level 9 is about to bury their much praised text adventures! Adventures with great plots are selling adventures! How about trying a different approach Level 92

Jay we couldn't agree more Having said that we anxionally awart Level 9's future arcade

#### style releases. SINGLE-SIDED BLUES

Don't you think it is time that someone, either software compames or magazines, found out how many single sided disk drives there are still being used on the

As the games get better and are taking up more disk space it. is now leading to unacceptable

levels of disk swapping Surely by now even those people with single drives have upgraded to a double drive

If the software companies made their programs on doublesided disks they would save thousands of pornds on blank disks. and may be able to bring the price of the software down because of

I bonght a copy of Police Ovest 8 and it had three doublesided disks m 4 and a note from Sierra asking the people with sinsingle-sided disks - now doesn't thal sound a better system. P.Hall, Harleston

## I am sure that there are many

many ST owners who sympathrse with your points. Almost every month we look at software which is runed by the amount of disk swapping that becomes neces-

You mitch! be very snipused however, all the number of smalesided STs that are still in use Remember that it costs at least £60 to upgrade an internal drive - and that is if you buy the cheapest available unit and fit it

yoni self Yes, Sierra's system is quite a good rdea, but think how Irustraing if would be for single-Sided owners to have to do this every time they purchased a

Unfortunately there is no easy solution to the problem, so it looks like both camps will have to enn and bear it





# Red-hot Hell

- NEC SECRETLY UNVEIL NEW HAND-HELO PC ENGINE
- OPTICAL TECHNOLOGY POISEO TO ARRIVE ON CONSUMER SCENE
- CONSOLES COMINATE SHOW FLOOR
   COMMOCORE SHOW NEW AMIGA
- COMMOOORE SHOW NEW AMIGA BEHIND CLOSEO OOORS

Nintendo

magne wands ing around 18 arcq aft caress (that's a mind-pumbing 800,00 square leat) surrounded by the weed and workerful offerings of no less than 1,400 major exhibitors. It's help but if you like it hot, hell is where you have to go.

What's Consumer Electronics? Pretty sim-

ply, if Discos self of it probably qualifies. Telly, Video, Audio, Camoras, Office Equipment, Keyboards, , and Computer Software and Hardware And its big, BIG business with total over the counter sales of about \$48 Billion in 1989. That's a lot.

sees on about seed similar in these in mass a bit.

Of that, around \$3.4 Bitton was accounted for by
the home video game industry. That sounds some too
bot out by our exister that \$2.2 Bitton of that was generated by the Nintendo system above. The belance of
the figure is made up of Esga and Atain ROM based
sales - with intertainment software on Boppy for other
veiters commen in all around the \$300 million milks.

On the face of it, that's enough to send the average. Advanced Compute: Entertainment consumer heading straight for the sick bag. I mean who the hell lakes the bog standard Nintendo seriously as a stateof-the-art entertainment machine? Judging by CES, everyloody does. Nintendo drove.

home its dominance in the market by occupying abroth late for he authorities one in the West Hald of the convenion centre, where all the extensionates software exhibits were housed, the mat begans status being that from Seago, followed no by that from NEC Pentends, Seago, PC Engrey-Encodatis. The message? ROM rules, or all least tharts what if books like for the minimiseth forms in the mount of one the MD of one UK software company, "tooling around here, you wouldn't that home complates seatiled".

Does this mean we are all doomed to be playing Super Mario Bros XII in years to come? Whalever hapAt the dawn of the new decade, manufacturers from around the world gathered in Las Vegas to announce

the latest, greatest, smallest, fastest, largest, noisiest goodies for the technofreaks of the '90s. John

Cook survived to bring you this report...

Michael Jackson from the Saga

pened to innovation, technical excellence and hoopy graphics and sound, you might ask? Well, the underlying mossage to those with their eas to the ground at CES was not as pessimistic as it might first appear.

The consensus is that optical disc lockinology: CD Brom, etc. are gaing to revolutions the brone entertainment ascilor But not just yet. The only home machine packing a CD right row to the TubboCnic, but dhee are many others on the verge of release—the Phips CD System lot statistics, several MSDOs systems ammed at the home market, plus the enginal examps with a but in CD Drive, unwelled by Commodition to selected downlops is 6. alignment with careful to the map to the first first property of the commodition of the commod





Ropet Messico Granil Price on the Genesis shows off the power of the system as consincingly as the coin-up origihal abranel off Seya's incremsing pethysical dominance of speedy 3D reutiness.

Only a feel fand they eastly would mention that machines such as thase with not make a huge mpact to the home market - with 600 MBytes to mass around with, you can store a whote bunch of very hress graphics and CD quiety sound that cannot fall but impress Joe Philic lishose fetter appears elsewhere in this 530e.

#### NINTENDO

logy

(SITE)

National rules, CR2 That was the message that was britishly inarmed home at this show National estimates to have sold around 26 multion NES machines Related Entertainment System) in the US in just over thing years it's in 22% of US households and intends to increase that figure to 23% by the end of 1990 The company is specifulg \$30 million in advertising in the first half of 1990 attine, to that each.

The NES is simply a phenomena, which with the immediate success of the Gameboy, might we'll become a self-own and a self-own and self-own as the self-own as t

Tere was much new software to the Nettende and I was generally agreed that the standard of pregramming and graphics had improved significantly over the post year Whint disappointed many however was the lank of Imagration closiples of a the image type of the bittle. How many variations on Stepher Monor and Castlevania can there the? The sonse was a lot of Castlevania can there the? The sonse is a - lot of the third of the castlevania can there the? The sonse is a - lot of the castlevania can there the? The sonse is a - lot of the castlevania can there the? The sonse is a - lot of the castlevania can there are the castlevania can the castlevania can be sometimed to be sometimed to be sometimed to the castlevania can be sometimed to be sometim

the Nintendo ROM market, however Games Buch as

#### PORTABLE ENGINE SHOCK

Behind the scenes NEC was displaying the big thock of the show a hand-held version of the

this private meeting with selected developes the hand held was unveited, in full worken order it undoubtedly blows away all opposition

account from a doubt prive inches constituted in the constitute about 8x4 miches Full resolution screen: a true 400x240 display which would convert to a postable TV with a optional juner attachment. And the most interesting news of all 1-bity compatible with existing PC Engral Turnocitation software.

hree hours Price? No announcement but hree hours Price? No announcement but you'd supect it to weigh in all wat over \$200 "Inting? No announcement of releases dates

but is there is words - and must be scar by the help of Arasi Ir's also inderesting to role that NEC are now the only indeedame broducers with a system that words is the includes (there musts a JAMMA compatible board for the PC Engraps) is on home console and is also a hand-hold.



Final Fantasy - an RPG with bottery backed RAM in the cart, so you can save your game position. Shadow-gate a hat on 16 Bit for ICOM Software has converted suprisingly welt rather better than Cinemawaie's Rocket Ranger.

The LIK learn who is the big disddy of Niverland Cheviopment wondhade - Rien — were also in the discor. The company that was Literate Fitty the Game and impotenceably dropped out of the home companies ask at the top have programmed around 40 Niverland before some call for third partners. The gays make so the smartest tas well as refrest of all Life software before the control of the smartest tas well as refrest of all Life software policytes as the smartest tas well as refrest of all Life software policytes as the smartest tas well as refrest of all Life software policytes and discovery self-size.

Even beyond video games, Ningindo is firmly embedding disell into youth culture. There's a hit live author adventure/comedy series "Super Manno Bros. Super Show" arming on 135 stations in the US.



plus the ammated Carlain N. The Game Master. Therefore moves belanging the Mintendou. The Witter being the most prominent. You can east Mintendo besidests create wear the Numerico sweet shats, coats and grains post on the Numerico stepars, control cost of the magic, cups and thermost faster, out on the Numerico furniture and test the time by the Nintendo clocks.

There's one thing for sum Whitin Nintendo decide to make the step over the Adantic with the NES and the Gameboy - rather than the fragmented toe in the water approach taken at present we aren't half going to know ebout it.

#### SEGA

Of at NationGr's competitors in the US, Sega bolk like they have got the best sot together here and now With superior hadwaie in both the Master System and the Genesis, they are hoping, at the very least, to cream oil some of the Nationach market. Marking down the Master System to S70 retail can only be a step in the might direction.

The real hopes for the future are undoubtedly

Out on the lawn at night - make such you san't drink too much, or you might get eaten by the figure in the labby of the hotel.

In the last quarter of 1989, the Gameboy produced more revenue than the whole of the videogame industry in

1985. One million hardware units sold, three million carts sold. 5 million Gameboys are expected to be sold in 1990.

Wings from Cinconsucere burned a free heads at the show mixing species and 3D sectors in a nosel fachion. It is not on Antigs in Mag, with IBN and ST version falleuting an

Into the slogfight in Discommerc's Wings francing on the Amigal.





New World Competing hall a funtitie on the Anigm called Nations Wat With airong carteon graphics said a samp theme all housed scound a 70's card game it's not to be taken at all seriously and looked. like a basech of laught.



pinned on the 16 Bit Geresis, now with over 350,000 Pang - the game that set the bell or the set of the bell of the set o units installed in the US. All Sega needs is the software Axe and Super Monaco Grand Prox and a sprinking of strong licences, Spiderman, Dick Tracey (soon to be a Warren Beatty/Madonna Inl movie) and Moonwalker

In Genesis, Sega have the most highly specced videogame until on the market right now, only history will tell if they can even begin to overturn the Ninlendo monoidh with this performance advantage

The TurboGrafov16 for PC Engine) is beginning to became a serious contender in the videogame market In a large booth it was proudly displaying an extensive range of new titles, many of which had not been seen

NEC's but brunch facert from the portable Engine see separate panel) was the announcement of the CD-Rom player for the PC-Engine On display was Monster's Lair with a boppy CD sound track - but more From The Desert, which will overlay live indea action featuring real actors with computer graphics in a CD Version of the game

Cinemaware can integrate about 20 mins of video action in with the existing game - and the initial effects looked very interesting indeed. On a separate tack, Cinemaware are also contracted to produce the whole of the TV Sports range for the PC Engine - taking advantage of the multi-player capacity of the machine Five player TV Soorts Football<sup>2</sup> Yum! The NEC CD-Rom is the first optical product to

make a big splash in the entertainment market the indrstry agrees that one day, all games will be made this way but isn't confident that the PC Engine in its present incarnation is the haidware platform to take it all the way. But it's a leap forward and congrals to NEC.

#### ATARI

The fall cats of Atan had elected to take a suite at the Muage Hotel (complete with white tigers in the lobby®, away from the show floor. There, it was sirpnely push-



Person Galf on NEC's Turbouvefly was



## LIKE, WEIRD, MAN

GES isn't just about computer games, of course walking around the show sometimes feels like attending the biggest jumble sale on earth - with



The 520STFM was relaunched at a new lower price of \$500. Regarded as dead by the game publishers, the ST needs this boost to give it any chance in the US marketolace.

Gateways are into senous subliminal pro-



de deselepera. Ihis is as intermetina offert programmed by Software Cr



ing arouse for Orogi Cupes - who else could light this by 3 monster?

Is a black box that fixes onto your VCR and will

pity a lape of positive runforcors onto the TV program of your choice. You cen control how often the messages et flashed up, indeed you can adjust it so the fre-

grency is institution by the conscious theelnoid. Now it looks like you re-watching normal TV - only say Galeweys, your subponscroos is being bentharded with posterior masseges and/or massed you observe.

Don't giggle. When subliminal edvertising was tiled out in US chemas in the 50 s, it result ed in vasty increased sales of cole and popcomer in though the audience didn't realise what was going on Spocky, hun?

#### TUNE IN, DROP OUT

Much site is the MC2 which comes as a single of their Ago values in magins a week with built in shores. States that block out the light from outdering magins patients designed to miss you countrie that with some lar out synth mastic countries of MC2. There no idea if this does you arry good or and the without one of the countries of most of week missing review of weeks unting around an ideas daturs, just fining in and disapping out how the limit may be used by the properties of the limit may be used by the properties of the limit may be used by the properties of the limit may be used by the properties of the limit may be used by the limit of the limit may be used by the time of the limit may be used by the time of the limit may be the time to be the ment because such of we say the time of time of



This titrie has can take control of your mind and he you im drooting since to technology. That's the too do phoble side: Destroya, however, reckon let' the most adverted made stated subconscious programs ming in the world!



Vision can be stable, obscured, or cumulately install



ing the Lynx hand-held with reports of very promising fest marketing in the New York area around Christ mas, with the full allocation of 70,000 sold

Tramel claims they'll sell another million in the region of the first state to say that the industry is scapped. Being the only colous hendhold was a be given now NEC have spoil that ideliberately and quite savegety! with the borns of, or brunch, having an established software base of PC Engine software.

Is anyone going to shell out for a Lynx knowing that the NEC machine is around the count? More like by, they'll buy a Gameboy while they await developments.

#### COMMODORE CD-ROM

Commodice was grang nothing away at its modest show floor stand, but in the depths of the West Hall can pair, busked away in an unobtrinsee prefab, software produces were being shown a major development of the Ampa.

Basically, rumour has it to be an A500 with a dif

fesence out goes the keyboard (as an optional exital, in comes a CDRom drive. This draw allows you to read CD discs, complete with a capacity of 550-600 MBytes of data That's equivalent to around 700 normal Amags Bioppy discs. And you could almost get a Caren equivalent.

Expected to be shipped in Europe first, later this year, this is an exciting development of the Amiga. More details as they trickle out.

#### COMPUTER SOFTWARE

OK, so the show was dominated by consoles, more consoles and yet more consoles, but there were still the odd few people out titere on the show floor doing it how we used to - on floppy.

if how we used to - on lioppy.

The long, long, long awested Helippon from 360 Pacific finelly made it to market - end looks the finest stretegic level similation to date. Out now on 18M to

be on S1 and Ampa in the falliness of time. Best PC Graphics of the show had to go to Lucasfilm, and the job they've done on Look, but in alt, if wasn't a great show for emischanness software on floppy. As if goes back to lot kits wowds after the pounding by RDM expect it to come out lighting in Chicago in Juce.

30% of Cameboy users are over 18 years old, half of that over 25. There's an almost 601/40 split between males and female here 100. An avalanche of zaftware is being developed to cash in on that

base - from bog standard

Invaders, to complex

NF1. Football games.



Final Factory on the NES (with box tory becked FAM so you can some gomes) is a step in the right direction for RON software designs but you becaut an the graphics com

in which Steve Parnillo of Conceptore said
On recognity had a necret weepen against
Int Japanese? The sources model to in a
manuse a manering from the car path second
the saidsmoot of certridge contraint of the
84 in this Commanders a manuse to Right66? Plugins offerers for the 64/ Nove
that it has interested in the first year.

Shooting Nor action for Cinemeasure's It Came From the Desert on CD.



# **Digital Bat Fantasy**



Welcome to the medium of the 91st

Rik Haynes flies to

enshots

New York for an exclusive ACE inter-

view with the creator

of the world's first interactive comic epe Moreno is a 35 year-old Spanish born artist working and living in a crack-dealing neighbourhood of Manhattan Not content with creating the entirely computer-generated Batman Dias tal Justice comic book, he is now using the book's digital data to produce the first interactive hypercomic

HYPERACTIVIST Moreno is totally absorbed in the possibilities of high technol-

ozy and its application in the mediums of art and entertainmen! "I'm more a futurest than an artist. I sell the future to corporations," explains Morano. "The been after byne media for years, the idea is to finance the Batman Digital Justice hypercomic as a conceal project." "We're trying to hidge the come book market and the

computer game markel - we hope to make this an industry of its own. I have no problems with competition but nobody else is doing this. Everybody knows it's going to happen but the markel isn't there yet "

The Batman Digital Justice computer generated comp book and hypercomic project was started about 18 months ago when Moreno first entered negotiations with the holder to the Batman rights, DC Comics, part of the grant Warrer Bros. corporation But why Batman? "Batman is a very strong cultural icon with international appeal. I chose him because I wanted to reach the mass mail ket - Batman's hype will establish the technology a fol-

"My plan is an overall factical strategy. The use of a computer was a conscious decision because it's all digital data, and digital data is very easy to manioulate. I'm an integrator - combining separate elements into one workable system."

COMICS ON SCREEN

The fraditional comic book takes about six months to develop, Batman Digital Justice took 18, "The way I portray the story is in a cinema-style which has more atmosphere than a normal comic book. More like movies on paper " The Batman Digital Justice hypercomic is priched

between passive and active user-interaction "Too many computer games rely solely on competing. Interesting characters and motivating storylines are just as important factors as playability. With the hypercomic you'll have a more dimensional expenence than you would with either a comic book or movie. There is too limited a space in a comic or movie to build or develop a character. Our development of interactivity and The user's access to all manner of information through a Hypercard environment will create a far more complex and entertaining medium." "Cyan's Cosmic Osmo hypergame on the Macin-

tosh was fully interactive bull didn't have much atmosphere to it." states Moreno

The first versions of the Batman Digital Justice hypercomic are being developed for the Macintosh and PC micros on CD-ROM. "The Next machine is the ideal machine for my work because it already has the Sometime into the next pentury. Welcome to future land! Take a rids on the progress express. Around you is world - but this is a 'make believs' world with vengeance, a world with no soul and a heart that beats in binary cods. One or Zero - God or the Vold. A complex and wired world dominated by a lyrant code. A computer rus from long ago that has become the world's first Digital Dictator.

The only hope is a myth from the past. from a time of leasnd and superstition, fond fore the virus ues. A new kind of ro, a program of lean' code and pure nemory, a program ten by a legendary crime fighter... A digital here, one that can restors digital truth ~ Digital Justice"



internal player," but Movero will cater for any machine capable of handing a CD device - if the demand and potential market is big enough. He's also interested in the new CD version of the Commodore Amga launched at the Winter CES Show (see page 18 for a full show report).

The Macertosh hyperconic will be complete within six months. Moreno is currently developing a Hypercard application to drive it and is also working on its audio and arimation aspects "I don't know much of the core technical stuff. I act as a kind of director. We're going to out in various soundtracks and soundeffects, and animals various parts of the images. You'll be able to freeze it any lime and go backwards or for wants through it at will There will be different areas like the Media Tower and Mayors Residence to give you a proper feeling of where you are in this fantasy unverse. Instead of speech bubbles, the characters will speak with dubbed actors voices and the hypercomic will be language independent - it will contain three of four language tracks for English Japanese, German, French or Spanish '

There are also plans for a CDI version of the Birtman Digital Justice hypercomic, "as soon as Warner Bros has finalised negotiations. I'll be getting some of



Morana is influenced by the classic American

those CDI units over here. I'm also in personal contact with Sony in Japan,"

#### SEX. LIES AND COL

ypermedia is where it's at," enthuses Moreno Imagine an electronic hypermedia version of ACE magazine. You load it up and see the cover This cover may have a little bit of animation to bring the point of the cover or articles to the fore. You go to the content pages. You click on the Japanese icon - the lent is all translated into Japanese. You click on any arbole you like Maybe it reads the article to you or scrois The text in a window. You can read the article



"Progress doesn't give explanations to arryover."



"I hope there's somebody out there trying to beat my ass - that would be nice "



me the on any



while simultaneously accessing other articles for cross-reference. You click on a photograph and a two video comes on or a playable demo of a game starts. There is so much video tootage these days which doesn't get used. You could be connected up to a worktwide network for real-time updates or communication with other users. The potential is timited only by the imagination." This stuff is happening already, they used

Hypercard during the last elections. There were so many candidates and mass of related information that an TV anchorperson could easily make a mistake during a two broadcast. So they put all the candi dates data into a Hypercard stack. You could click on the name and it would bring up what that candidate said in their fast speech or TV appearance " "People who have the money already use hyper-

DIGITAL ART

#### Moreno proudly proclaims, "digital is the art medium

The essence of art is to communicate and mobvate society through whichever medium. What you want as an artist and where your imagination takes

"You're on your own not trusting anybody that's how break through's come about."





market will bear - it's a very important and difficult batance. Drgital is the best medium to maintain the quality of the original concept throughout att the creative and manufacturing processes of producing a consumer product."

"I act as an art director and the computer does all the labour live become a better artisl, with preater effect. It takes twice as long to produce art on a computer, but the results are like it took twenty times as much. It you're a methodrcal person you can cut the time in half." "The good news about digital art is that it's

snealing behind the censors. Comics have a heavy censorship burden to bear, they're perceived by the Americans as pure kid entertainment. If they include some adult content people think you're trying to per vert lods. We're trying to break the norm - giving it a broader appeal. We can can do this today because computer generated entertainment is difficult to control. But what about tomorrow?"

#### **FUTURE SHOCKS**



"Are you going to ignore the art medium of the next century?"

#### CANVAS OF THE 21ST C

Tuse a great deal of art programs, with about four specialty preferred packages. My approach is to use a suite of commercially-available off-the-shift software tools. The bottom line reality when you use the Macinlosh is that no one single program can dis it all.

\*Noise to inclusives software developers to cre-

ate the tools to keep up with me."

The Barrier Digital Autors corner book has 114 pages with 850 pages of this typic reportion of from 2008 for clean data, Moreas started with the task-level pages of the started started with the task-level pages of the started pages of the started started started pages of the started started started started pages of the started start

"I organized the data on its own, basically each panel is a painting. The faregrounds and buckgrounds are created separately, then assembled into panels



and pages at a failer stage. As I was finally going to print, I aphinised every single picture to have the maxmum amount of colorus. I have 256 colorus per page. I had to economise on data because the bigger a file is, the more hassles you have to go through. A tyicol page takes 400K 500K.\*

cal agest their 400-500-9.
We 88 page story usure or rooms 60 pages of the 88 page story usure or rooms 60 pages of the 88 page story delicer, which seems of a site better or all the teles and of the 88 page story of the 100-500 pages to 88 pages and have all those addressed through an local formation plays the Contempt play the Contempt plays the Conte

Morera uses \$60000 worth of hardware to creative sworks of legislat art, noticiting two 8Mb 24-bit palette Apole Macantash il computers with shared data lei kirk van Apole Talik. Marss Storage 45Mb removable hard-drive, bytv and colous scanners, Isseprenters and Rassterflops colous incontor The Buthman Digital Justice dalla, including bardups, fills 10 45Mb removable hard-disks.

Moueno's constant upgrading and invastment in new software and hardware does utsmately pay-off though, "il I were to do a sequel to Batman Digital Justice it would take me half the time..."



#### DO ARTISTS DREAM OF ELECTRIC SHEEP?

Typical our would and audit rained. The unables sweat bag is what early makes living imapped to be added to be a supported to the whole poincial change in the Eastern Block has male to do with personal computer to the personal interest into it that an unable or the third provided to the personal computer to the personal computer to the third provided to the personal computer to the personal computer to the personal computer to the third provided to the personal computer to the personal compu

\*People shouldn't be threelened by new technology it silvers to enhance than lives

"Hi definition 1 VS with have built in computationips 20 30 titles into the powerful into the M 68000. Your remata controllar will become more than a channel selector it will become a mo

"I dilky to see all the 30 models I create sent through the wires to a computer mill which would dill southfure as manufacture a tay."

Advances in optical medium and LCD technologies will make portable interactive electrinic comlocaks leasible in two to three years time.

With 12 million haiss at entertainment to fit – art and entertainment will become the key industries the 90s and beyond

---

"I don't care how long it takes or how much I burn myself to death, I'm going to do this product."



# FROM ENCORE...

Spec. Cass. 2.99

C64 Cass. 2 99 Ams. Cass. 2.99

Release Date 7.3.90

© 1988 Elite Sustems Ltd

**IKARI WARRIORS** 

Spec. Cass. 2.99 C64 Cass. 2.99 Ams. Cass. 2.99 C16 Cass. 2.99

Release Date 21.2.90

1986 Elite Systems Ltd.
SNK Corporation 1986

WONDERBOY

Spec. Cass. 2.99

Ams. Cass. 2.99 C64 Cass. 2.99

Release Date 26.3.90

• Tm & • SEGA 1987

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• 1987 Activision Inc.





Elite Systems Limited Anchor House, Anchor Road, Aldridge Walsall West Midlands

one to te masutr page leger a t. A typ-

iges of came is project, i to 88 i top of bashing an travor data if ways. uld turn amed in isseups,

o create i 24-bit ed data novable ers and fall Assmorable ment in payoff Dipital

# LOST PATRO

As OCEAN goes on a 'search and destroy' mission in Vietnam.

Rik Haynes volunteers for a special

recon preview

une 1965 a US hetcopter crashes in the remote central highlands of Vietnam, leaving only seven survivors. They have little food or ammuneon, no radio, and need to find a way to cross 58 miles of a widerness that is alive with enemy soldiers and booby traps. That was the good news, the bad news starts here. .





OST B - Your agend's

Lock 'w' loud, fet's head-out. The





 Almost of the American ground cowbat forces have departed from South Veteran by early 1972







#### HUEY



A If the tide turns ageinst them during a battle, the VC can hide their peapens and simply marge with

## AGONY UNCLE

So much for winning the 'lieuria and |Minds' of the Victnamuse people - just
blow 8 feet nearly to get what you wan!



Easily the best part of the game: he sulper areads suce such invocative magnifying telescapic zight



he Night belongs to Charlie The Neglet historings to Chartie Andre Let Hotel 6 et also at sociations at hight, missing to their resety delicated do see or simply gitting region were trey spood. Meanwhile, Chartin – the Track stang, term for the VID. most of supplies and min under me cover of dathness and the surrounding length.

#### The US Marine



machine guts medan and granules solid-sera fluts to be any effective in the boundaries of SETTING APPRILATED by battle for that



The VC are very resourceful and waste nothing After a firefight they will take way any empty thelis, rearm them, and use on again at a later date Á



Your rem are demoralised and disposted such your lecalerable All you'll get now is a 'frieging' hour own troops at the constanter you such a freigmentation grounded and a corpor-class flight back to small town America is a beiging a

# GOOD MORNING VIETNAM!

Here's a once in a lifetime chance to snatch up some recent 'Nam videos. together with your very own Video Cassette Recorder

Of late there has been something of a revived interest in Vietnam, The United States seems to be finally coming to terms with the full houror of from Coppala's Apocalypse Now to Kubrick's Full Metal Jacket, and Stone's Platoon have attempted to exorcise the ghosts of Vietham that still plague the conscience of the American

There have also been a number of computor games based around the events in Vietnam Ocean were responsible for bringing us the superb Platoon, based on the film of the same

theme with the impressive Lost Patrol. (See on detailed preview of the game on pages 28 to

Ever since the company's inception, Ocean has gone from strength to strength. As a leader in the 8-bit market Ocean were grack to take up the challenge of producing equally impressive 16-bit software falthough they have never forgot-Ien their commitment to older machinest Recent well-recieved releases like Bahman and The Untouchables, as well as adventurous tries like Lost Patrol are an indication of the continu ing growth of one of Europe's most repected



# ALL YOU HAVE TO DO IS...

answer the sample questions below. They are all intended to lest your knowledge of 'Nam movies, but to give you a fair chance we've given you a choice of three answers to each

Mark yon answers on the back of a postcard, together with your name, address, and caid to "

ACE VIETNAM COMP. PRIORY COURT 30-32 FARRINGDON LANE. LONDON, EC1R 3AU.

1. Who was the star of the firm Apocalypse

all Charle Sheen b) Martin Sheen c) Emilio Estevez

2 Who starred in the film Platoon? m) Charlie Sheen b) Martin Sheen c) Maxion Brando

3 Who said 'Good Morning Vietnam'? b) Steve Marbn

e) Robin Williams The first name to be drawn out of the hat

will win the following goodles: A high quality VHS Video Cassette

Recorder

And these great films on VHS format video Platoon

Full Metal Jacket

· Apocalypse Now

 Hamburger Hrll Deer Hunter . Good Morning Vietnam

· Green Berets Uncommon Valour

1. The closing date for entries is 1st March 1990.

2. Employees of EMAP or Ocean are not eligible 3. No cash alternative can be offered for the

4. The editors decision is final and no comespondance will be entered into.

Advanced Computer Entertainment 3.1



# SCREEN TEST

## **ALL NEW PIC CURVE POWER**

The PtC - Predicted Interest Curve - is the most sophisticated reviewing 100l around. And now it's entered the 90's.

ADE follow you don't pust piley is game - you repartence in This movely appraised Prediction

the PRC Curve has been redesigned to immediately give you the into you need as n





#### UPDATES, READ ALL ABOUT 'EM! Chase HO and Bomber Rick

Ocean and Activision and bolt blasts onto Spectrum -- all

#### IQ FACTOR

#### FUN FIGTOR

900+ A classe gate

## 500-899 A superb

600-699 The Jan

THE ACE REVIEWING SYSTEM

400-499 Problems 300-399 Nat only is

200-299 Thors are ing really sensus now 100-199 ZX81 games

#### VERSION BOXES

Rtk Haynea was Raviews

# CONQUEROR

Way back in Issue 9 we reviewed the original Archimedes version of Conqueror from Superior and were suitably impressed - the game achieved a rating of 931. Now, a year and a half on, Rainbow Arts have delivered the Amiga and ST

versions. We put our tin hats on and tell you how well the game has travelled.

There have been three impressive tank simulalions released of late - M1 Tank Platpon from Microprose, Omega from Onigin, and now Conqueror from Rambow Arts. While it is pleasing to note that all of them are extremely good pieces of software, it is also interesting to note how diflerent they are

Omega is not so hat on the graphics front, but the ability to actually program and design your own automated lanks is the sort of thing that will appeal to the technically minded M1

Tank Plaloon on the other hand is the sort of full blown simulator that Microprose is renowned for It has the impressive graphics and attention to detail that are characlations that this house

has released to date Conquerar offers something completely different again, While it



The map in the Stretegy game clea uter area you must capture and hold

to be a lol more accessible to most players than either of the other two simulations. This is dne, in part, to David Braben's graphics system.

first seen in Zarch, which is used to generate the game's landscape and 3D objects. This uses a conloured patchwork of cubes to corstruct a portion of visible landscape onto which are mapped traditional filled vector graphics to represent trees, buildings, and tanks. The resulting three-dimensional view gives a very reakslic feel as tanks disappear behind hills or judder across streams

There are three basic games available at ten possible levels of difficulty all set in a Second World War scenario These are Arcade, Attrition, and Strategy. The Arcade game allows you to get straight

into play without log much thought. This obisc tive is simply to hold out for as long as possible with a single tank against the computer-controlled apposition This game is useful for practising direct

control of the tank, which can be tricky until varive had time to adjust. The default mode is control by keyboard. The subal key settings are actually very good (that is to say you can reach everything), and this is probably the best method of control if you only have a single joystick. There is optional mouse control of the gutt turrel in this mode, which allows a second playdrives the tank If you are play-

ing on your own you can got for either an automatic driver or enner This allows you to concentrate on one aspect while the other is taken care of by the computer It is rice to sae a thought ful feature like this being implemented, but I grickly gal frustrated at having to

is a lechnically accurate simulation, it will prove modify my actions to suit what the computer

One extremely good feature of Conqueror is the number of control options available. You can



PREDICTED INTEREST CURY

RELEASE ROX

LAYE FEB ATARI ST £19.30ds POJ 80/6

Mag a ountwood target area - the numb secureds you have left before you win the pasts

use almost any combination of mouse and joy stick control that you care to think of. Probably the best option, but one requiring two raysticks. is to have a joystick in either port and to use one to control each of the tanks trucks. This works in a similar way to the old Battlezone arcade game (and indeed the controls in real larks) in this mode the sideways movement of can do everything you need to do without having to lake your hands off the sticks

Once you have mastered basic tank





select a new tank for manual control on this

Once you are ready for a really meaty game

you can saled Strategy. This is similar to Attrition, but there are two possible objectives: completealminate the enemy, or hold a tar-

gel area for a minute. The latter is easier said than done, since the larget area is of gute a wide radius and it is nol easy to keen indvidual enemy tanks from wandering into

The other ddfer ence between Attriton and Stralegy is the ability to buy and sell components of your

force to achieve exactly the distribution of light and heavy tanks that you require. There are also other options like spotter planes and map fre (which involves heavy sheling of enemy occupied areas) which add to the complexities and

There are some nice textures in Conqueror that are peopheral to the main game, like the

possibilities of the Strategy game.



rolating 3D lank displays and stals that can be cated up at any time during play. Then there is the ability to prich German Tanks against Russian, or American tanks and play for either side - that should keep everybody happy

Conqueror is certainly a very impressive piece of software. To hardened simulator tans I can recommend it wholeheartedly. If you haven't tried this sort of software before then the accessibility of Conqueror makes it an ideal place to start. If you're an out and out arcade tan though there really isn't much here to interest you.





shows that the affenders have already fled

CONQUEROR \*\*\*\*\* The tack park shows the vehicles that you currently possess who ranged along the front are available if you have sufficient credit

You can

mandeuwres it is time to go on and tackle like

Attrition in this game you have a basic selection of tanks comprising two light, two different medium, and one heavy. Your objective is simply to eliminate the apposition completely

your tanks, you can direct the others by calling up the map display and moving the pointer to the required destination. It is also possible to !

# FULL METAL PLANETE

INFOGRAMES import French board-gaming via the micro

MENTION bond genets to your average when the special property copies up mages of Lads. Seakers and Ladders, and through Lads. Seakers and Ladders and Lad

For the average punter, however, such games can saem underessarily complicated the doesn't went to have to plongh through a track forme of intes and then engage in a game which might lead a wided day or longer. What he ideally wents is something ongenal with easily grasped notes of play, in which most games will last to two to these hears and no more – per-

lect for a rainy evening! There have been a few games to emerge in

this country little have managed to fulfill this rolle quite racety. Roke and Diplomacy being has of the more obvous names that come to mad, in France, one of the games that has achieved a popular status is Fulf Metal Planete, and it is on that boardgeme that Infogrames micro conver son is based.

The game concerns mining in the fair future Your objective is to land your mining Freighler on a plenet, and collect as much one as possible within the time allowed. Naturally enough, there are other perties also intent on grabbing their are other perties also intent on grabbing there fair share of the one, so your will have to



tree Guts Moris begans to deploy his forces on readinase for the computest to come compete with them for it. The competition I

oughl to point out all this juncture, is not only for the planet's resources but also for survival it is permissible for players to not only destroy mining units belonging to apportents, but also to capture them

The game is played on a landscape comprising mountains, level land, swamp, reef, and see This is divided into haxes which govern the positioning and movement of your immigratins as well as the range of your ettack/defence

For the purpose of exploring the planet's natural resources, and defending yourselt, you have several types of craft: the Fraighter size!, which is used for accumulating one and creft, and ultimately literaporting everything off the planet. Wealther Hears for manufacturing new craft, transporting craft and one, and predicting tokes, Barges for Iransport across welter; Cabbi for transport across and Allick Boats Tom-

defence on water, end Heaps (large tanks) and Tanks for defence on lend. You can also use Pontoons to construct bridges.

The game lakes place over beetly fire counts, which are disaded not eight phases. On the first lam you ment land you fright, on the second you dealing as much of you ment a land you nich within the area minoballities as much of you much within the area minoballities to be a second you dealing a land of the latest movement of the action posts, which becomes last in the neat road and follers the second you have an early opportunity of lotting off. This con sometimes to folling off. This con sometimes.



Allerin	
durong preduch as if can out off meet to be flort right for the nat come embes an come embes an objective disks packed we disks packed we	by one of finese all singing. It is not should suppose the much the Amaga, but their I downship and the should be sh

GRAPHICS 7 TO FACTOR 2 37

be beneficial if you elicedy have a good cered and might be in denger during the last four rounds. If you continue to play then there are three more normal rounds, and on the twentyfifth round you must leave the plane!

The game world be difficult enough it is samply involved collecting one, and conflicts will offer players, but you elso have the lides to contend with These chenge at the beginning of every moral, either exposing or flooding land. This means that you have to carefully plan your moves in advance or you could end up stranding some of you creft.

For what is an epparently simple game, Full Metal Planete has in-depth gameplay which luck in this game) It is easy to see why the board game has emoved such success over the water, and since this conversion allows for all The subtleties of play involved in its liabletop par ent then you reelly can't go las wrong with it. As an edded bonus, you can play on your own egainst up to three computer-controlled occonents, and even design your own logo nsing the built-in utility (called Full Metal Petette - so mo for Gallic Immour). This won't be to everybody! taske, but if you are looking for something a ft. one game then I thoroughly recommend his grames' lates! product. Laurence Scatfell



bered for his rather graphic zomludicrous basis they are quite entertaining and penasionally fairly gut wrenching if you are on the squeamish side, like mel Ubi Solf's game has endenly been

mated and are now walking the Earth to salisfy their crasing for human flesh. Anyone who is bif-

Get seriously

scarificed by UBI SOFT's horror

feature

tion there is a helicopter which can be used to escape to a saler place such as a remote.

ummhabited island. Unfortunally ly you don't have enough fuel for a prolonged journey. Your task is to find this fuel. There is, however, a rival group also looking for fuel so you will have to contend with them as well as the zambies.

a lew pockets of human sur

www.rs.remain - to make matters

worse they have to compete

with each other for the lew

available resources they need

to ensure their continued exis-

Near to your groups loca-

The play screen is divided fillo several windows. The lancest shows a three-dimensional view of the area just in Iront of your currently selected character. You can collect and manipulate any objects you see by clicking the cursor within this window. This is also used for comball with the zombies

On the whole the zombies just pace back and forth ignoring you, but occasionally they will burn towards you and attack. At the beginning of the game you have nothing but your fishs to prolect you, but there are a number of weapons which can be collected to afford you more pro-Tection If you managed to shool a passing zombe in the head there is a satisfying gush of blood before the thing collapses to the floor in a

PREDICTED INTEREST CURVE

RELEASE BOX ATARI ST AMICA

2 FOR FACTOR

Movement is achieved by clicking on all the four arrowed edges of the man window. The up

and down arrows are context sensitive, so while they move you up and down if you are on a stairway, They will move you lonwards and back wards when you are in a corridor.

Initially you play with a team of four people You can only move one of them at a time, so you must first select the relevant person. Naturally enough, moving around in a zombie infest ed area is quite a dangerous occupation, so it is quite possible that one or more of your party will med with either death or zombification dur

ing the early stages of the game. Whal is immediately appealing about this game is it's atmosphere - you really do get a sense of menace especially when the moody David Whitaker soundirack gets going Lone zombies pacing backwards and lorwards are not exactly finghtening, but the way they suddenly turn and attack you is a well-executed bit of work It is also quite harrowing to find yourself suddenly facing a whole horde of hungry zombies. This happens quite a lot if you stray loo lar

There seems to be quite a lot to do and plenty of places to explore in Zovntx. The way That you coordinate your characters takes a liftie getting used to, but this doesn't really detract from the game. On the whole this is one of the more creative and almospheric arimated adventure games (ive come across recently and should provide some involved entertainment for general gamers as well as hardened adventure lans. Worth the wart!

Laurence Sections

Advanced Computer Entertainment

GEORGE Romero will prinis a rather crudely drawn comic

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which relates events leading up to the start of

The time is the 15th of April 1986 (could this be an indication of the length of time the project has been in development?) For some

len also becomes living dead. After a while only



# UR

The place 16th century Japan You are a Samurau, a warmor whileves for honour. Your world teers with opportunities to achieve it. or lose it. The ultimate honour – to become Shogun and unite all of Japan under your rule – is a prat worthy of only the greatest of Samurau.

Action, adventure, historial accuracy; Samurai advances tre gaming genre MicroProx poneered so successfully in Piratei Available for IBM PC and compatibles.

Unit 1, Hampton Road Industri Estate, Tetbury, Glos GL8 8DA Tel. 0666 504326/504412

MICRO PROSE

GRANDSLAM tries for Mega micro performance



WHEN Sega's Space Harner first list the aicados back in '85, its 68000power, 4096+ colous burst and gut-wrenching hydro-cabinen), assured it cult status overnight. legal a flood of micro conversions followed. from Spectrum to PC Engine Indeed, Space Harner has become something of a yardstick to judge your machine's audio-visual capabilities by. Enter the 16-bit Sega Megadrive console last year - what's the first game Sega decides to produce on this cyberdeck? Space Harrier II on the Megadrive is binning over with massive end of level guardan supersprites which move at lightning speed around the screen without any hot of ficker. Now Grandslam has decided to convert Space Harner 8 Id all major home computer formals (even MSX). An impossible task or incredible achievement?

Gameplaywise, there's very little to Space Harner # You control a geezer who can fly all around the screen, simultaneously pumping out whilehol laser into a 30 forced perspective landscape. As you're doing this, the landscape speeds all you from the distance bringing with it obstacles and aliens of deadly presence - contact with them spells the loss of one of your lives. After you've dispatched a few aliens, you'll

and the original Sega

come across a mega end of level alien - who'll visually impress you, while churring out doadly laser blasts at alarming speed and accuracy If you manage to take out this substantial spirite, its onto the next level - with added aliens, obstacles and even move frightening guardrans.

It's all pretty mundless and repetitive stuff but it is immense fun. Any skills to be had from the game come from remombering the differing aken attack waves and obstacle movoment pall terns - certainly nothing to stretch the mind to any great degree. But this is a simple shoot'emup after all

Grandslam's Space Hauner II on the ST is so good a conversion. I makes the Megadrive redundant. until Sona comes up with the next generation of 16-bit blasters on its megadeck ho only thing Space Harrier if lacks is depth of gameplay - but that factor has nevor deterred any Space Harrier (an before

E filk Haynes



250K (650K graphica 12 full levels, 12 guardian onstrught. Anal confessio-bon with Dark Homer

5 - 2 agoust

PREDICTED INTEREST CURV

mitangly the ST version runs just a little slow

6 FIN FACTOR

Advanced Computer Entertainment 39

pan. who eems it. - to Ill of t of

the rose atesi com-



or Handson if is time to survey the battlefield and deliver year first set of orders you can be seen your forces facing some of the enemy perched agent the Printsen Heigi

PSS are currently riding on a wave lollowing the release of the highly acclaimed Waterloo Aparl from the overriding his quality of graphics unseen in any wargame, and the command system was more remirescent of an adventure, with a compelent parser breaking down whole paragraphs of typed commands.

Between Walerioo and Austeritz the pro-For Alan. Although graphically similar to Water loo, this fact was generally overlooked by wargamers who were all too happy with the new style software hitting them

Austeritz has also surfaced in much the same you. The graphics are in the same style as its sisters, and although the commands are different the play system remains the same. Too much of a good thing is all very well, but loo



PSS/Mirrorsoft run raneteenth century, Austeritz chronicies Napoleon's greatest riot in Europe, but is battle, against the might of the Austro-Russian army Naturally you're given the charge of history repeating which side to play

itself?

options are apparent at the start up - except for a feature which allows you to change the start up orders for each side. So in theory you ing forward to a rapidly surrendering enemy

Sel in Moldavia in the early

With you all he top of the command chain. all orders are issued to the divisional generals who in turn pass the orders on to the respective platoons. It sounds complex and it is. Because of the historical edge it takes guite a time for orders to be carried out. After all you're a hurdred and thirty years short of the walke talke While sometimes trustrating when a division is being hammered, it does allow for some well timed cavalry charges.

If you've had no expenence with this system before, the way commands are assued can prove frustrating. Orders like "Bessieres, take support from Bernadotte and form a delensive arrend Kobelnitz" will always confuse the

Despite all the glamorous extras Austerlitz all nlays like any of the bland 'old style wargames, which came as a surprise to me - it. looked as though it could have been a case of all graphics, no gameplay

Attention to delail is excellent. The manual contains a full background as to how this particular battle came around, what happened during RELEASE BOX

DICTED INTEREST CURVE





The battle, and who did what in the aftermath Extremely useful in planning which route not to take in order to come out on top it's attention to detail and ability to follow the battle to it's out come that produces the almosphere. You can fight the battle just the way Napoleon lought it. or ool for a completely different approach

tor that weighs heavily against Austeritz; the cessors. Once you've played one you've got a designer option would have helped immensely it's a pity this facility has been overlooked.

Somehow I don't see this style of wargame having the lasting effect that is common with time purchase, but if you have any of the others there just isn't any pomi.

Mark Patterson



PREDICTED INTEREST CHRYF

	RELEASE BOX		
FIG.	SIMP	100 170 15	
an .	× 6567	Alen er at	
AMPIA	12.00	CARR CTIO	
	stected and supplied	as two 5.25" daks	

Dock in gameping forms, with stor response and middle princip problems. Social of a deed less unless you have an Ad Lish board.

GRAPHUS 7 ID FACTOR 4

Allino 2 BHK LATTOR 7

AUDIO 2 FUN LACTOR 7 675

BECOME the Ultimate Bixer God. That, and there Downston Doubless long-hared, greasy bearded, pot belied, leather packeted, social devants are right now beating a farmac pathway to their nearest software shop to grab is hold of the world's trist official Higs Simulator Tallang of hosp, this one SI a bit of a pac.

lawing of nogs, this one is a bit of a pig. The program arms to blend recide achon their his, negotiate the rocky made of Mame USA, encounter other brothers, and make your way to the great hog trough of Sturyis where your biter endurance will be rewarded by bring the heads off thickens, no doebt.

You start in quasi RPG fashon by distribut in organis between various oscendar biter skills, raisigns from engine maniferance to chansma (manly tor piding up chicks, en what?). You then take to the open road and head for the next town.

The roud sequences sent's hard to master bildes own below services services to send the services below to conservation to constitution to control and up-arrow keys senditareous higher control and up-arrow keys senditareous high proposed to control and up-arrow keys senditareous places to the control and up-arrow keys senditareous places to the control and up-arrow keys senditareous places of the control and up-arrow to the control and

# HARLEY DAVIDSON

The open road; the throbbing

Harley Davidson between your

legs; the girls; the comradeship;

the leather; the heavy metal...

Can a game give you all this?

MINDSCAPE think it can,...

her a lift to the next town for a reward (usually cash, but possibly an item of baker value) Arrang at the next town, you refue! This

down't just have to me an reflucting your bite you can also top my your own pleasure orcusts by rolling in the pay with the tendle filter attracant. This diocsall seem to result in anything (certainly not a signific display) other than a higher bill for fuel. Bikers, it seems, haven't heard of ADS yet—or at least not in this gome, they haven't.

After frolicking with the good time girl you can choose any of the other ophions available in town shopping for parts (ranging time a helmot to a new engine), foung your bike, and having a good time with the local brighters. Fixing your bike small invalves choosing

the part that needs attention fahown on a specal status spream that gives you a health barchart for each part using your mantenance skill Utless you're peetly nifty fand set your membeance skill level high at the begjinning) this sin't likely to have foo much effect. The local brothers, however, have more to

offer You can include in any one of five events,



Out in the open road. Watch out for damaels in distress on the strge, they may approclute a ride and pay you.



ARE disgusting, you for, heiry, slub!

each of which offers you the chance to earn money, increase your standing amongst the bro's, and hopefully have a little firm in the process.

The exerts range from the finishy Slow-Nice Contest which is probably haden in the program than it world be on a long. I know that Harley's less any big which are going to pack up at low exest, both the is indicable. Her in professional the product of the content of the Day race which was a off more fun in the Day race which was a off more fun on the Day race which was a format for the partie less you can be content of the partie less you can be content of the partie less you can be content or the partie less which is the par

Other events include Hill Climb lab Hill I law gear dodging missiles I liom your Triends?; Polier Run I grab cards from bystenders to get a winning hand, preferably without fattering them), and Weene Run, in which a convegetarian lody smalltes franklurters hanging on sings above the road as you should down the highlyky

Finally, you can go partyn", which is of more interest for the boost it gives to your energy levels than it is for the Bob Seger typos

on their fact of the floor September of the September of

Steve Cooks

# SPACE **ACE**

READYSOFT/EMPIRE

bring Don Bluth's

arcade movie to the

small screen

If his long basis his deam of many pacadisminded in computer selectarranal, whether as producers, consumers, co orders, whether as producers, consumers, co orders, loss the consolide international of firm and entaractive computer lectricology. The measure or model to a film whether higher set that sho the way the pold evolved. All possats there are moves when can of even wall the magnet of modern firm lacehology to create, it excessively completely even amorements. But for all is specifical, and magnetive facilitation, that movas the characteristic policy and completely even amorements. Set for all is specifical and magnetive facilitation, that movas the characteristic policy and the policy of the characteristic policy of the chara

Computars, on the other hand, are a computely different story, Liet the film makes, the programmer is also capable of creating new words, but, which a lifting a lifting a compute game is something that we can all participate in — was something that we can all participate in — was have the power to affect the outcome of this games we play. But even the most expansion, frome machinast are limited, we can ever hope to a chave the annihilating realism afforded by fifting occan was.

Annater Den Bluth has cartanly mode opertive movas in this diversion aven if he has only restly managed the first treatave lew steps. Buth's background wes, not supromagly, very much in moves the was an animator for Dissips and is still evidend in the production of annalad lenture firm's foodly, but ha also has a gual and perfect the production of an animator of animatorium respect for the potential of the comparter as a medium for aniartamment, His first production in the fisial, the Taggins Case racede mechines, was an attempt to combine the best of both worlds.

worlds
The machine made usa of traditional animabin storad on a laser disc (which was stiff a flar by givensia technology back in 1983). The anmalad scanas were shown to the player who



had to move a yoystick at an appropriata moment in order to see the here to salety. Gall it wrong and you are forced to witness your rather ugly and, gall it right and it's on to the nead screen.

Space Ace is more of the same only the piled is more argunal and the amenton is a lick furniar. Yet take the part of the harce. Ace cheat a suppir harmal, in a mission to save you believed. Kimbarly, from the avid. Committed Bort. Hafortunally, Bort has managed for zea you with his lateste. Ray which has harmed you youth all allowing. Death in this weakring gause you sell out to saw Kimberly and faults all but have allowed before the Bort designation of the same facilities.

cause the or occasion to the object cours from may seed that Dragger's Law must inside of the assets of offset aims in throw companie consistents which is once of the visual appeal to the consistent which is once of the visual appeal below. The consistent is once the consistent laby. Readpoint's conversion of Source Acts, you will be passed to be ask of not offset in some way. Both versal and water contains sociality's spoot the least Admit ship or can want to see which the earth of the course you must be seen with the contract has no should write the contract that the contract has no should be consistent to the said of the point want to see which the earth and the course you can save your position that are it less drudgary may be supported on the contract of the contract prophydial coloring.

Agant you must view each scane and make the approvate joyatick mase if the sight time in order to save you skin, but this tima thata is just that little bit more playability which actually pasheas a week of difference. You gat quite a lew immutas of animation on four docs for your moves, but what a foll of morey it is for what is essortially a very good audiovisual antertainment with a bit of interactive thrown in

® Laurence Scattland







DICTED INTEREST CURV

# SIDESHOW **S**

LIGHT guns seem to be coming back into an gamer you will probably recall those ancient consoles with five or six built-in games. On the whole they were variations on Posse, but some mathines also had simple target games which involved obliterating a large white blip that bounced around the screen. For the latter curpose a cheap plastic light gun was provided along with the paddles that controlled the other

When the early consoles began to lose out to thei more sophisticated counterparts then the good old just gun went into decline too. Recently, however, there has been a resurgence of newer, more sophisticated light guns. Companies like Cheetah Marketing and Amstrad have been busy producing light guns for the Spectrum and CPC (although this is little more than a ploy to keep sales of 8-bit machines as healthy as presided

The trend has been slow to catch on in the 166t market - aithough yon can readily oblian trakballs, graphic pads, light pens and so forth for the more sophisticated machines, light guns are hardes to come by American company. Actorware have now reclified thall deficiency lat least as lar as the Arriga is concerned), by producing a phasei light gun along with several games that support it. The latest of these is Sideshow, which, according to the manual they developed as a contrast to the violent themes in their earlier phaser compatible games

This game, as you might have gathered from the blie, is based around the sort of fair ground events where you take pot shots at things in an attempt to win a cuddly businy that probably costs less to buy than the money you paid to win it in the first place (phew)

There are eight events you can play Baiicons has you popping them to find a hidden pattern, Balls rivolves shooting all green balls while avoiding red ones, Potpourn is the classic shooting gallery where you can pop off ducks, planes, and so on, Strength requires you to make weights shoot up posts to bit helic-Knives gives you the opportunity to chuck sharp objects at a rotating clown (actually you're supposed to miss him), Clock Shoppe gives you a chance to get your own back on all those

The purelpht is not for taking not shots at the mi

Experience all the fun

ELECTRONIC ZOO/

of the fair with ACTIONWARE



nince a smeshed clock face to likely to provoke a

annoying cuckoos by shooting them as they appear from their clocks: Haunted Hiff is another classic in which you shoot at various spooks and nasties before they disappear, and last, but by no means least, there is the Duck Tank in which duck shooling will give you the satisfac tion of seeing poor Willy get wet. Although there is a lability within the pro-

gram to ensure that your light gun is properly calbrated. I still found it very difficult to short with any accuracy, even at a fairly close range This could, of course, be an indication of my abysmal shooting skills, but I suspect that most propie will actually expenence similar difficultes. Playing with the monse is a lot easier (and, indeed. The only option open to you if you do not passess (he phase)

You are not free to play any event as and when you wish. You begin with a limited number of tokens and before you can play some of the more expensive events you must win a few takens on the cheaper and easier ones. Unfortunately it is no good rust selecting an event you are good at and playing it until you brild up a bride of lokers, because a booth will be closed if you win it three times.

You also have to watch your hunger level - if this gets too low you'll have to pay a visit to the Food Stand to lop up. which will also use up some of yon hard earned lokens On the whole. Side show is

a highly entertaining game which will probably appeal to mnm, dad, and kid sister as well as seasoned games players. There is a lot of disk swapping, which can be dute frustraling, but this can just about be forgiven considering the variety of gamoplay you are treated to.

RELEASE BOX

PREDICTED INTEREST CURV

SET PHASERS TO STUN, MEN

There are also a lew bonns leatures thrown like random events, Easter Eggs with a secrel purpose and the ability to design your own face for Willy in the Drink Tank. If you are looking for something a little different that will appeal to a wide age range then Sideshow is

Laurence Scatford

# CEREBI SOFTW



Asthedisklouded, I felt drawn into different mality, grallemative world where I assumed the identity of another?

## The Middle East Political Simulation ISM PC \* COMING SOON - Areiga \* Atari ST

COLUMN THE REPORT OF THE PROPERTY OF THE PROPE aste the multiple pressures that a nation is under in a modern nation state. Your a to three the collapse of all four neighbour governments. A frightening and highly realis



## HUNTER KILLER iga • Atari ST

Amiga - Aten 51

Expensifies the resulty of commanding an American
WANT combat submerine in the South Pacific.
Mister the controls of your vessel, then embark on
this series of missions - from "search and dealing" ties to detailed excort duties modelled on real tuke place during the day or at night, HUNTER KILER has a host of features that outpless any



## GRIMBLOOD

Amiga • Atari 5T Place yourself deep within the walls of Castle meless obedience to the rituals of the castle and sin his freedom. If you fall you are certain to fel ctim yourself to the stalking assassins lepife... A gothic whodunnit, written by Mike Singleton, featuring digitised abund and graphics and promising a different game every load!









SIERRA take the system
that created Leisure Suit Larry
and add RPG concepts –

surely this has to be a winning formula?

# **HERO'S QUEST**

If that to happen. Sherral, not contient with being America's numbe on ergorbic animates adventure house, has finally cottoned on and introduced RPG elements into fis games. Imagine closurer Sant Carry, Rongs Quest, Proice, Quest – all bridland games – and then add the exclosional of creating your own character and building him or he up while you play Surely this has to be a recipie to unmitigated gamesplaying blos?

Usin further, where Herres is concerned, the ingreders haven cased done justice to the incipied Herre govers. THE ONE SERVE ANAMATICAL AMENIUME SYSTEM, CONFIRM THE MISSELLANDES SERVE THE SERVE HAS SERVED THE SERVE HAVE SERVED HER SERVED HE SERVED HER SERVED HE SERVED HER SERVED HE SERVED HER SERVED HE SERVED HER SERVE

Next' TAKE A GROPPING SCENARIO OCDS, no groping scenarios suciable. The dismatic inspiration that gave us the child stave in Aings Quest fit, the despite site Rosefa in KON, or the obstruct Larry Laffer in the Lessure Saft games has downulsy run out here instead we get a chip who simply wonts to be a hero in Spielburg Olatery will get you nowhere. Serral, Heroes in



The combat screen clump thrust and aleah necourses don't get the estrenatin going as much as they should



RELEASE BOX
ATURE ST
ANTOI
BUI PC
PREDICTED INTEREST CURVE



There are a bet side unth an hol-picking and wassers with hol again to scapitate. Once you got lots the games, you man get comple by the Sherta holest of superior appairies, sometimental spaces, and the promote of two of persons. The present system, however, servers a hig disappointment, and it fromly you will see our to a typical Sorra adversars with only a five his of a single Sorra adversars with only a five his of a single internal. And, of course, down you're arthurd. Ry quire facilities of with N. fantasy games are len a penny. What we want is character interest, chaps, and there ain I none

Ned and centerous bose or are another interests in stated interest is totally emply instead of giving us a meanly learn of adventurers are informs Tale or Ulthing, we have a single player character. He cannot secrut anyone and instead with other characters any more than early of the other normal test and the characters any more than early of the other normal test any more than early of the other normal test any more than early of the other normal test any more than early of the other normal test any more than early of the other normal test and the other norm

chracters in Stero games. Finally task are-bounce coverts wave road, see Are you knoking? Stero games how took, as Are you knoking? Stero games how class and lass, before the represent general opposets graphed opposets clamble in the product graphed opposets and stemat games of the inches a few routine code and stably measurement, solve all down next, often all down next, often all producting four can help have any opposit, graphed alternal to help have any opposit, good about action if is too short, finally, make it all rather says to except from if highes get all rather says to except from if highes get

tough (they do). All thal is, in essence, the story of Heroes Bul it's a story with a happier ending than you might have expected. Underneath the RPG prelensions you have another Sierra animated 'adventure carloon with superlative graphics, a weaker story line than other recent Sierra releases, loads of puzzles, and a healthy modlcum of engoyment. Forget, therefore, about the RPG innovations as they re not really up to the expectations they rarse. The only nice addition is the ability to play a thief, magic user, or wai nor which adds some variety and a few minor spells to the scenario. Otherwise, this is stardard, but very beautiful fare for Sierra addicts, who have quile rightly discovered that you don't need sizzling arcade action or mega-sophisticaled parsers to make a good game, for those who can afford if

Steve Cooks



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# WINTO YOUR HANDS



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The Reliway Station confrontation a Warehouse bust culminating in the thrilling denougement of a

## KOOFTU

es you re-live the knife edge existence of Ness In his strugagainst the retribution of Cap-

against the retribution of Capone I THE LYTOL CHARLES - LIVE A MERIL A LEG To about the color of a game as small and produced as providing for the conversion of the color of the color of the color of the library in \$40°C Sector Version Color of the color of the color of the library in \$40°C Sector Version Color of the color of t

Description Follow-up to Last Century II de 1 III ...

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WICE THE FUN, TWICE THE CHALLENG

the Hilliatik report clame from a DC/to leaving Farix for Boston—Arab (used to the second of flight 102 and has burned the alroaft tow kirica...The plane lands in healtle territory and the terrorists begin helf demands...

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## ENTERPRISE (PC)

A golden oldse from Melbaurne House (remen ber them?) which casts you as a merchant space pilot. Your arm is to earn enough money To retire to Paradise Planet. This is done by collecting minerals and selling them to the inhabitants of the innumerable planets in the known unveise. As well as building up a fortune you must also insure your ship and its contents, buy food and fuel, and make the occasional repairs,



Once you have mastered the hype jumps and landing on planels you can beg converse with the aliens. At this point the gar bagins to beer an uncarrily resemblance to a very ancient program called Eliza This was a clever prace of programming that picked up on common parts of speech and analysed [hem to The extent that it was able to give you apparently intelligent raplies.

Whal you have here is essentially a poor man's Eide II has a few nice louches but I wouldn't be prepared to lay bets on its long term playability.

ACE RATING: 500

## WORLD DARTS (PC)

Given half a chance, bored programmers will spend their time Irying to simulate absolutely asything and everything on their lavourite machine. The latest victim is the classic game. of Darts, in this implementation a hand wielding a darl in a rather unsteady fashion drifts with increasing rapidity across the screen. By using The cursor keys you can change its direction but you can never hold it still. Once it is positioned roughly where you want it a purck flick of the space bar is all that if lakes to send the dart fly



The control method takes a little getting used to, but there is a fun game to be had here once you go! The hang of il

## ACE RATING: 675

## SPEEDBOAT ASSASSINS (Autiqua) At first sight this looks and leels a lot like the old arcade game Road Blasters, only water has

been substituted for termac. Your task is to lib-

Laurence Scotlord looks at

six titles in the new 16-Blitz range published at £4.99 by

## Virgin Mastertronic

erate four important harbours that have been laken over by enemy loices. There are three stages involved in achieving this

First you are dropped off by helicopter and must guide your unarmed speedboal through a narrow channel of floating mines to gain enhance to the harbour. It is easy to do this without danger by going slowly, but unless you take it all speed you will lose a substantial

Next comes the main meaty part of the game which involves you speeding across the harbour taking out mines and various craft. Your wespors can be upgraded by docking with the helicopter (not an easy manoeuvre when you've gol the enemy throwing hell at youth You must destroy four red communications towers to neutraise the harbour.

Once you succeed in this it's on to the final slage - blowing up the manne equivalent of an alien mother ship. Hil life baltieship twenty to thirty times and you are off to the next larget This last stage however, is so difficult that there is more luck than skill involved.

On the whole a reasonable challenge, but it won't be long belore your eyes are glazing over ACE RATING: 650

## CALIFORNIA PRO GOLF (PC)

There have been several very good golf games available for a variety of computers over recent years Leaderboard and Jack Nicklaus Ion instance and it seems to be becoming a popular past time for goll addicts who can't stand the rain. If you're a bit short of cash however, then this is a viable alternative. All of the usual features are here; both three and two-dimensional views of the hole, wind conditions, club selections and the ability to control shot power, hooks, and pices

On the whole (or should that be hole?) this is a pretty reasonable golf smulation for the price



Worth a look if you lancy a round without leaving the comfort of the nineleenth

ACE RATING: 700

Way back in time when the Spectrum was still one of the best micros to be had, Imagine produced an odd little monochrome game with wireframe graphics in which you played a space trashman pushing 3D objects into a black hole Kelly X also has you destroying pieces of floating space junk, and apart from the fact that the wireframe graphics have been replaced with solid vector graphics the two games are



tediously similar (in fact the ancient Imagine effort was twice as playable). Five minutes will be enough to have you reaching for the reset

ACE RATING: 390

## ROAD WARS (ATAR) ST)

I seally can't understand the thinking behind the re-release of this stame. It went down like a lead balloon when it was first released as a full price game, and even at this low once if just doesn't out the mustard. The game has you speeding down a curved road shooling various rogue riems, provided you can manage the unwieldy controls I hall is. A complete waste of a fiver!

ACE PATING: 300





## THE STRATEGY GAME

# MIDWINTER

## OF THE DECADE ARRIVES

As a new Ice Age dawns in Rainbird's gigantic new classic, strategy gamtic new cases, new ara. For Midwinter is a genuinely original concept that launches ravolutionery techniques onto tha home computer screen.



accuracy. You control 32 personalities, each with different qualities, skills and complex personal relationships. Enemy movements can be tracked, and battle plans made, using tha incredibly detailed on-screen map.

The scenario is convincingly realistic as a new loe Age grips the world. Together with e small group of pioneers you have colonized the Midwinter Isle, a 160,000 square mile land mass now under threat from investigating your sanctuary.



In your bid to defend the lifesupporting heat mines, you can ski, hang-gilde, travel by snow buggy or cable car, snipe and sabotage the enemy. There is no easy way to win, but tho' geme's unique dapth end absorbing complexity will keep you trying until you do.

Compelling action and strategy take place across a spectacular 3D fractal generated landscape with its stunning geographical



The deep Midwinter is upon us. Be prepared for a long and axciting battle against its elements.







SPORT smulations for popular have come and gone in recent years although very few have left more than a fleeting impression before a player moves on to other games. The problem with sports smulations is that something as fleid and indeterminate as the performance of the human body is impossible to simulate with any acquiracy. The joystick wagging track and field type games some sort of physical test. As tar as other sports simulations are concerned, what you actually end up with is an arcade game that makes use of the rules of a sport, but otherwise bears little resemblance to the expenence of actually participating in the game in onestion

This has not stopped many programmers from making many brave attempts to do just that One of the earliest attempts to capture the essence of tennis in a computer game was Psion's Match Point This employed a high 3D perspective and was quite fun to play, but didn't really allow for all the subtleties of the game Then there is Imageworks Passing Shot which is a conversion of the arcade machine. But while lins is a good game it employs an over head view - again, not exactly helpful for develcome sublie shals

Now Utx Soft have a had a crack at a lennis smulation and come out looking good. Pro Terms Tour has been selling for some time now storm - I'll be very surgrised if the same thing doesn't happen here

Again you are presented with a three-dimensional perspective view of the court which works well apart from the apparently huge size of the ball when it is all the opposite end of the court. The joystick (or keyboard) controls your movement across the court. Sholls are played by pressing the fire button to swing and Jhen releasing it to actually hif the ball. Unfortunately you can't move the player while you are swingmg so you have to make sure that you are posboned correctly before you swing the racquet This can lead to some rather tricky shots if you have to slide night over to the other side of the



URENCE

The discript of your shot is determined by your distance from and relative position to a cur sor which marks the destination of the ball. This takes a little getting used to, but the system works quite well once you have become accustorned to it. Additionally the crosshall can be switched off by selecting either Advanced or Professional, as opposed to Easy mode

Serving is also accomplished with the use of a cursor, only this time you control its position. Again it takes a while to gell used to this and you can expect to lose a few points through double tanits while you are growing into it.

The main part of the game is tournament play which gives you the charge to sample sev eral different surfaces Grass at Wimbledon. Clay at the French Open. Cement at the Austrafran Open, and Cement either covered or uncovered at the U.S.Open, in tournament play you begin ranked 64th and must play successive computer controlled apponents. They play ly develop a good technique if you are to stand any chance at all of winning a match

Fortunately there are comprehensive practice options which allow you to improve your service, or leturn balls delivered by a machine using one of six different programs. You can also select to play against another person using the second joystick poil. This does mean that one of you will have to play at the far end of the court, but this is alternated so both players get a chance to play the easy end. As with the tour nament the practice ophons can be played on all three surfaces.

What mally makes this nar ticular tenns simulation stand out is attention to detail. Witness the line judges getting tennis neck or the machine bleeping it the ball skims the nel. The sprites are not cally animated. This is easily the best tennis simulation to date and should keep Wimbledon tans happy during the winter months until They can get the real thing on their screens again Highly recommend-

Anyone for tennis? UBI SOFT/

BLUE BYTE are!

a TUN FACTOR

The sorties are a little crude even on EGA but

THIN FACTOR

PREDICTED INTEREST CURVI

Laurence Scottord

## MONEY FOR OLD ROPE

THE GAME AIN'T NEW, BUT THE CONVERSION IS GLEAMING

## **C64**



## Bomber

Activision; £14.99ca; £19.99dk; PC version reviewed in issue 27; ACE rating 925

Vector Grafix superb flight sim, Bornber, emerged on the PC last year to great acclaim. Not only did it include fourteen planes but also boasted incredible solid 3D vector graphics. There was also a variety of features to keep nonspecialists happy (such as the outof-cockpit views) and a mission designer Although everybody seemed very excited about the program at the time there was o dark thought at the back of a lot of people's minds. This is fine on a 386 PC, but what will the 8-bit versions look and play like?

vesions don and play like? Now that the GG4 vesion has energed it is time to either allay or confirm those lears. When the liting finally bads you are presented with the issual arcraft selection screen, and at this port things look good. It is only when you get beyond this port that some of the CG45 definences bearn to show

The most obvious thing is I hall many of the options available on the PC version are not available there. Well, that's to be expected because of the memory restrictions.



bons. When you actually begin I or judy, the reduced screen areas and slow update speed are also partially noticeable. However, if would not be fina to decry the program too much. If it is stall a certification and active ment, but perhaps a little over ambidius which may give existing CSA light sims the origin.

## **Bollistix**

Psyclapse; £12.99dk, £9.99cs; Amige version reviewed in Issue 20; ACE Rat-Ing 686



Psychippe computer variation on Crossfire a back again, only this time on the CS4. The tides behind the game is to repeatedly fire balls all a schencial purk, and knock if sith young outprints grad You can either play against anothe en person, or noy now, flighting against grawly. All of the alements of the other versions size here, the only difference barrig the sightly power county of the graphics. The game is first and Linnos and provides pleetly of short teem fair. Not a lot of stay ing power thought.

ACE RATING: 500

## Chase HO

Oceen; £9.99cs; Amige end Spectrum versions reviewed in Issue 29, ACE Retings 840 and 868 respectively.

Take a very simple idea for a dising game, add some fast heltquality graphies and lots of sound, stock the whole foll in an accede cabinet and you've got something approaching Chase FAQ. The coinop has done very incelly foll stell ther's you very incell, so if was no staipns all all that Ocean made anock use of their Tarto forens.

The lirst two versions of life resniting game were pretty good Ok so the graphics on the Spec frum (and even the Amiga come to that) don't come anywhere no:



those of the arcade machine, but the conversions did relain its playability. The C64 version could easily have been the same, but unfortunately the jakey and slow graphes and strident sound don't help matters much. The game is playable enough but if ideasn't really compare to the first two versions or really compare to the first two versions.

ACE Reting: 700

## **SPECTRUM**

## Operation Thunderbolt

Oceen; £9.99cs; Amstred end Amige versions reviewed Issue 29; ACE Rading 815 and 927 respectively

Tatio's blood "if guis compo Operation Wolf weril down a storm with encade addicts, who were all able to pop adong to their local codifiation a hard adjust print and in particle aking the best with an Univery relieshing. Hardly supmang then that being able to do if with a friend in Operation Practicefull was even better. Even less supmang is to Creat's telested of this given after the successful conversion of the contraction of the support of the support of the support of the particle of the support of support of the support of the support of support of the support of support of the support of supp

The best thing to say about the Spectrum convexion is that it is very competent and quite aid of it in In the end though I found that, as even, the monochome graphics began to get in the way of my tall engagment of the game. When things get limited a becomes almost impossible to pork individual lagraces out against the background. It's a shame that it is this telaity unavailable factor which spoils an otherwise former house to come out of the start of the

ACE Rating, 725





Trade Secrets is an exciting new concept in gemes hints and tips. In addition to your excellent Tricks'n'Tectics sent in to us, ACE will pick the most popular game released every month, end esk its programmer to reveal all the game's inner secrets. Every game taming ploy will be covered, from complete same maps to hidden cheet

modes and bonus levels - told by the person with ultimate knowledge of the game... Its creatori





cutch up with the criminal's on Try in hil the our at the side on turbo and hit the car's elde



## **CHEAT AT CHASE**

What better way to begin Trade Secrets, than with the top selfing computer game of Christmas '897 Ocean's Chase HQ 4E FERD LUUB racing-sim coin-op conversion was reviewed in ACE 29, where it achieved a 868-rating on the Spectrum, Rik Haynes discovered all Chase HO's inner secrets by guiling its programmer, John O'Bneu

## SPECTRUM AND CPC CHEAT

iro straight to the end





Switch to loss gear on the hard turns. The least time to switch to high pear to when you reach 100 The leasale lune nermally has the faster before activating year turbe to achieve a featout speed in





You can cause more dumage by jumping on the priminal's one.





FITTING THE PIECES

Taking 6 months to develop, the Spectrum was son of Chase Howas written on ST Mega 2 using Cosal's custom-designed sust on develorners software, which muchdas sestembler and graphics editor Although the game's sports und background pankons were designed on the ST, the lossing screen was dawn directly on the Spectrum. A large presentage of Otheris's programming time was speal writing Chase's comgraming time was speal writing Chase's comlete. "Igsain" graphics Inguigage used exhemsively in the game, for instance when exhemised graphic degless on the enackscope. Other exist.

"getting the speed while retarnme the graphics in perspective was the hardest thing to achieve - it's styfting a hell of a lot". The sprites were designed by William Harbison on the ST using Ocean's m-house graphics editor Once the manachrome Spectrum sorde outines were crealed versions for the CPC could coloured-in D'Bost's favounte sonte is the helicopler prol portrail in the control panel because "It's very stylish and line colours work well\* Jonathan Dunn translated four soundtracks from the com-op with O'Brien supplying an additional 15 sound spot-effects. Five more sound FX were directly digitised from the arcade machine using an Armea sound sampler - Ihrs dala was then reserted into O'Bnen's ST source code, "This is one of the advantages in using our own 16-bit development sys-Jem." enthused O'Buen, whose layounte sound effect is the thud of your car hiting the floor after jumping a hrll Unfortunately, the screen-update prevented the use of an in-game soundtrack. Despite this flaw, the screen

update runs at a staggering average of 13 frames a second – could Chase HQ be the fastest Spectrum racegame on the market? Irate Spectre programmers can write to ACE at our normal address. O'Brien is most pleased with the flaver loans on the same's title screen.

## C64 CHEAT

Similar to the ST and Amiga chear, simultaneously hold down the fire button and type GROWLER. During play you can now reset the time by pressing the Tikey. "they all run in a single frame" He's less impressed with the game's steering control. "it could have been better if it wasn't for the update rate" in fact, the steering routines were rewritten 10 times during Chase's development. Sadly, a lack of time and spare memory forced O'Brren to dech plans for hidden bonus and attract sequences in the Spectrum and CPC versions of Chase HO. These leatures can be found in the prisonal com-op and many Japanese console games - These are the types of games O'Bree prefers. When asked why gamesters should buy Chase HQ, O'Brren unashamedly answered, "it could be my last Spectrum game!" O'Brien finished our interview with a bo for any polential game coders or designers wanting to hit the big time: "when you send stuff to soft ware companies, never send anything average people always remember your worst work rather than your best".

## CHASE HQ SPECS 'n' STATS

Version: Spectrum
Run-time Program Size: 320K multi-foad

Source Code Size: 640K Program Breakdown 20% Code, 79%

No. of Levals: 5 stages

No. of Adversaries: 1 chimnal + 3 other

Max. no. of on-screen Sprites 50

Averaga no. of on-screan Spritas: 20 Max. on-screen Sprite Size: 'Bloody Bg'

- the tunnel is the biggest sprite

No. of Sound Effects: 15 + 5 samples

No. of Soundtracks 4

Max. Soundtrack Length: 90 seconds

Average Screen Update: 13 liames a second





depending on which lane 4s in. Our yet more and more intelligent on the general programme. They all cubit and turn and some even try to deliberately get in your way Restrict over taking to the streights decease you get audied somewhat the weeken try to the streights decease you get audied somewhat the weeken to are no turn.

hitting obstacles - elthough they inour time penalties aone of them just cannot be caused.



# ERGUI

## LETTER

Dear ACE

What the hell's all this rubbish about permena (1)3 and a games revolution l've never even SEEN a CD-1 machine. In fact, people tell me they don't even exist! Is this true? Are you just trying to press my attons or what?

Yours sincerely,

Joe Public.

## LINKED

You just followed a link to this frame. To find out more, check the Varyon Irame

You just pressed a button - well you would have done if this article was implemented on a nputer hypormusia system. And you got

This is another frame. All the boxes in this artcle are frames. Each frame is given a which is usually the same as the butter

## **PRESS MY BUTTONS**

Colloqual phrase meaning 'attempt to induce a sudden state of uncontinued emotion, e.g. anger, misery. The term button is also use To refer to an element in a hypermedia system



The ion of Cosmic Dame is that non-don't k of pressing them) adds a delightful dimension of dis

The most important development in games-playing history is now well and truly underway. It all started with something

called 'hypertext'. Here's the full story...

How to use this outstan

links in any order you like

## HYPERMEDIA

hypermedia is a frendy catchphiase that really look off tollowing the development of so-called hypertext systems. These are simply distabases which present information to the reader in a format thall allows him/her to browse through the information in the database in an unstructured, inturive lashion. They work as tollows, Mornation in the database is slored as a series el frames, each of which contains a chunk of text. For example, the letter from Joe

The information in each frame is, however linked to relevant passiges of information in other frames. So, for example, if you were constructing a hypertext version of an encyclopaedia, the frame contaring the releience to: Xenor if might mention the Brimap Brothers details of whom might be contained in a separate frame. The uses

could then click his mouse pointer on the words Bitmap Brothers and the system would automatically display the new frame with their In this example, the words Bitmap Brothers would be termed a

button - clicking on buttons enables you to move from one frame to another along predefined links and the process can be continued indef untely. For example, the new Bitmap Brothers frame might contain a reference to bitplanes, clicking on which would take you into a whole new area of reference: graphics programming. This movement from frame to frame, explening the information in the database is called browsing Furthermore, each trame need not be limited in size (except by storage capacity, of course), so clicking on a reference to Othello in the frame about Shakespeare might call up a frame containing the led of the entire play. For this reason, CD-ROM, with its vast memory.

in a hypertext system, frames contain only text. However, people hardware, frames could contain sound samples (c)ick on Seul II Soul, hear Jazzie B), graphics, or even other software systems (click on Xenon 8, play the game) When these other types of data are incorpo-

rated, yeu've moved from hypertext to hypermedia

RAD

- DECIAL

To help make things easier, we've broken the links between the frames on this spread and the previous page. It you want to follow your link from a button on page 57, just look for a frame on this spread with the same name as the button.

## EXIST

Yes, this is unfortunately true, all least as far as we were able to ascertain at the time of going to press. None of the major CDJ sys. lenns are yet available for public consumption and the developmental systems in use by software houses are constantly being upgraded.

However, line software systems that will drive the new machines are already being developed nong euisting technology. This is the importance of games like Cosmic Osmo or

These games may look crude, but they really do represent the beginnings of a games revolution, because the concepts they are developing will later drive hardware capable of making your gamesplaying dreams come true. Yee, it will be worth the wast.

## SONY

This company have recently been buying up Hollywood film companies left, right, and centre Expect to see interactive versions of famous moises in the near future. Soon you'll be able to Come With The Wind, instead of just going with

Sony were also collaborators with Philips on the CD-ROM and CD-I standards

## PHILIPS

We covered the Phillips CDI machine in ACE issue 24 Schednied for release during the next couple of years, it's promised all noder \$1000.

## COL

Make no mistake: CD-I is totally hyperconfusing! In fact, here In the UK if someone claims to know anything about it, you can be pretty sure they don't. Here are the facts...

ness Back of Reproducts in a

upical hypermedia package, offering sound, graphics, and simple

The laser disk technology that has given us compact disks for misse can also be read for computer data. Unfortunately, the WAY in which it is used has evolved in many different directions.

## CD-ROM

This simply means any CD that holds data in a read-only form, as defined by the Philips/Sony Yellow Book (see the Jargon frame)

Microsoft, the company dominant in the Pic market because of their operating system MSD0s, are keen to mantain their exalted position in the future by further developing time CD standard Amongst other times, they recently excusted Greg Retr (who previously headed or pill-torone Arts CD4 development division), so let's hope games considerations aren't entroly absent from their place.

McCrasoft have recently amounced three levels of CDROM development CDROM, which is really just the basic storage facility. CDROM XX, which allows ando and digital signals to be refereed simulationally, and CDROM XA plus full motion video. The latter uses a special chip that, by compressing/discompressing/ lie data can speed up the transfer rate.

## CD-I

Most people know that it stands for Compact Disk Interactive. All this means is that the hardware and operating system of the unil which accepts the CD is capable of taking data off this disk and allowing you to interact with it in order to do this, however, you have To be able to drag the data off all a considerable speed ill would be no use, for example, if the user wanted to click his mouse button on Mick Jagger's animated lips and hear the vocals of Jernprog, Jock Flash if the system was so busty animating the lipe that it couldn't get the sound data out at the same time.

Tax problem of data lows IT-Eb gut exneal bupbare of ALL CO development. In order Io anmate a staff traine of usden, by over a CO-quality countrial, ARD and in all sorts of clever computer warderly (protect power of the computer warderly (protect you need to shift enormous cauntities of staff at very high specifics) fronting ways of science this problem has led to a number of offerent standards: being excluded, and gits on it feel in responsible for the confusion in the manifold and the feel find there STLL risks of

machine to be seen on the shelves in Dixons
However, the best known standard is that
currently being developed by The and Solid CDI, they
may be simply using the term loosely, or they
may specifically be referring to the

DV-I

Philips/Sony system.

In the search for round data network, RCA developed any one of that, when bolled onto a PC exampped with a CD driver, solved the problem DV4 can not only produce that I transe annation, but it can also handle the sound as regard graphes processor that provide the problem of t

DV-I was recently purchased by Intel Since Intel, Microsoft, and IBM are all closely inked in the PC market it has been singgested. that Microsoft's CD-ROM XA with full motion wideo is in fact the Microsoft operating syslem with DV-I bolted on. There has, however, been no confirmation of this.

We thus have three main 'CD4' systems. The Phillips standard, which is still under development has yet to offer full-motion video (but will soonl, and is now expected in the shops al the end of this year But then, if was expedied in the shops two years ago. The Phillips approach is correctly the only one that explicitly promises a unit for use in the home (and therefore for games as well as reference and education). When we will see it is another mafter. Furthermore, the graphics processor on the Philips system is not exactly stale-oftheart, so if you're expecting Amiga-quality sprites to dance across your video back ground, forsel it. Think more in terms of C64/MSX quality there

Then we have Microsoft's CD-ROM development program. This is correctly targetted at the business arens and PC neers in purhoutar (though there's no reason why it shortoft's be made available for other machines!

Finally, we have DV4, which is by far the superior system and which may turn out to be the engine behind CD-ROM XA (the third stage of Microsoft e development, that offers full frame video animation.

It would be lowly if all this confluon sort of edited but in the next levels months and left us with the best possible system on the solves at the lowest possible system on the solves of the lowest possible proce. But if worth, Remember the buttle between Bether and VHS on video recorders? Betamax and VHS on video recorders? Betamax was the better standard, but VHS won As to the lare schedule, think live years, and don't oupset to see your 1990 Christmas stocking budging with CDI grodies.



Pergus StcNell used to deelgn garnes like The Boggit and Rolln of Sherisck using abenture peneruters. Note has turned his hand to hypergames, he rackets they're the greset assessment challenge to creativity he's set up

## NOW GO TO PAGE 11!

Just why are games like Herewith the Clues (see pages 61/62), Cosmic Osmo and Psychokiller so important?

These games represent the first wave of products developed using hypermedia principles. They may not be much to look at, but that's because the hardware they're running on has limited memery fer digitised pics and sound. What's mere, the storage medium is usually lloppy disk, so there's a horrible pause while each new frame is leaded in and displayed on screen

Not much to look at, but if you're interested in playing staggering interactive epics with full screen video and CD-quality soundtracks then these products are more significant than any of the most ambitious 3D games currently on the mar-

That's because these early hypergames are all using the software systems that will soon be driving even the most powerful CDA machines. Not only using them, but developing them, refining them, and giving games programmers the expanence in working in a completely new way. In five years time, you'll look back on these games and conge at their primitive appearance, but at the same time you'll know that without them you wouldn't be enjoying that CDI lantasy you got for Christmas 1995.

## JARGON

in CRL's EGADS system (see page 611, a sequence of frames/actions. BUTTON

## An element within a frame which, when actival

ed (by cicking on it with mouse, for example) calls up another frame.

Compact Disk: a 12cm laser disk as used in standard CD audio systems. CD-COMMON

A disk format standard that can be read by both Macintosh and IBM machines.

Compact Disk and Graphics: an early CD4 standard developed by Warners and offering CD performance with added graphics lacil-

Generic Term for interactive compact disk technology Also a standard developed by Philips/Sony Offering up to 660 megabytes of storage, eight hours of stereo sound. 32,768 colours for static graphics, 256 for programmed animation.

infrequent term, referring to CD4 with full metion video capabilities.

## CD-BOM

As a generic term any CD offering read-only storage. Mere specifically a standard developed by Microsoft and leading to advanced CDI potential

Compact disk video; an analog/digital system from Philips that can play CD-audio and accompany if with a full-motion wideo signal Unlikely to have much significance for games

## DV-I

Digital video interactive in chip sell developed by RCA and now the property of Intel, Offers full mation video and sound together with graphics manipulation features.

In video Lerms: a single screen image, updal ed 30 times a second (in NTSC format) and 25 times a second in PAL/SECAM formals In hypermedia terms: a single file within a hypersystem that can be displayed on screen and which conventionally contains lext/maph ics datar however can also be used to contain sound or program code.

## GREEN BOOK

The Philips/Sony book of standards for CDI

## HYPERCARD

A simple hypermedia system developed for The Apple Mac, popular with vuopies, and now bundled free with the machine.

## INTERACTIVE VIDEO

A system that enables a video program and a computer program to run simultaneously under the control of the user

The Philips CDI muchine covered in ACE 24.

Interactive Video Tape, a hardware system (different versions exist) that turns a VCR into an interactive system by splitting the lape into

different tracks and switching between them nnder computer control. Covered in ACE issue

The connection between two frames, actival ed when a button is pressed.

## IV-POM

Laster Video Read Only Memory: analog/digital system used for the BBC's

## Domesday Project

RED BOOK

## The Philips/Sony book of standards for CD-

## REFLECTIVE OPTICAL VIDEO Disk technology whereby a laser inscribes

shallow pits on a glass master disk. Copies are then pressed in plastic with metal slampers moulded from the glass master. The copies are then covered with reflective aluminium and sandwiched between layers of transparent plastic. Used for most CD applica-

## SHOT

Alternative I erm for a hypermedia frame, used by CRL in their EGADS system (see page 61).

## The Real Time Operating Nucleus Japan's challenge to CD4, yet to be seen, evaluated, or - passibly - even produced

YELLOW BOOK The Philips/Spriv book of standards for CD-ROM technolegy.

## YELLOW GREEN STANDARD

A mixed media CD-ROM format, so-called because el its moture of lechniques from the Yellow Book and the Green Beok.



# Follow **That Clue!**

et's be honest, now CRL is not one of the country's biggest software houses. Right now, however, its outtine locather a fivoer games system which proves that even the little guys can hyper it up

THE GAME

Remember Dennis Wheatley? The bloke who sent horrible hairy spiders prancing acress the lwng room in search of innocent female flesh in The Devil Roles Out! Although best known for his Duke de Richelieu black magic stones, Wheatley (grandfather of Domark's Dominic Wheatley, just in case you didn't know) was also a prolific author in other areas and one particular oddity he churned out was a sort of DHY murder kill called Herewith the Class

Produced in collaboration with a Mr Links, HTC came in a next little felder that contained a number of documents, some photographs, seme press cuttings. and vanous 'exhibits in little bags. The story centres round terronsts in Lendon just before the outbreak of the Second World War As Assistant Commissioner of the Mel, you have received a top-off regarding the baddes, and when one of them gets killed you have to first identify and locate the gang and then establish a ink between each member before finally nating the

When Clement Chambers of CRL spotted this little anbase, the first thing that sprang into his mind was that it would make an ideal hypermedia project. It has all the right characteristics (see the article on page 28). Jols of visual and written data, all linked logether and all creating logical pathways for the would be sleuth to follow with his magnifying glass or, in a hyper game, with his mouse.

The first thing to do, however, was to ceme up with a software system. As Clem says, hypermedia is quite unlike a normal games programming proact. With the latter, you get a lot of programmers and

CRL have come up with Britain's first games-dedicated

hypergame generator.

graphic artists sweating away for months on state-of-The art at aphics and sound routines. Which are finally shown off to best advantage by a lousy game design With a hypergame however, the actual software system is comparatively easy to program it's the data that s the problem. HTC offered all the data on a plate All that was needed was the engine to drive it

THE SYSTEM

Enter 18-year old John Casey, who in six months produced Britain's first games dedicated hypergame gen-



clicked on by the player, will nd during play? Yes son delies as many buttons





One of the laku a oloso took at this writing, out then operated other frames to discover e rital cleu. Osu the delights is the ebilivite

visual, oudle,



game production system. We

to make a movne "

Clement Chambers

o Sarplo Los

Sample Hand

erator Called EGAS, it allows a non-technical game designer to assemble data in the form of digitsed images, lext documents, Deluxe Panil files, sound samples and what have you and then link them together into an interactive network of exploration and atmospheric experience.

EGAS actually slands for Expert Graphic Adventure System, which might lead you to think that it was something EGAS was developed because of along the lines of Incentive's Grapha derive to have a non-technical ic Adventure Creator, but in Tacl nothing could be further from the organied to free the imprenation of truth. There is no 'parser or other designers unifout subjecting them adventure software-type feature. to teclescent duscritions, whereall, instead you have a true hyperme-

you don't have to build a comero dia engine, very similar in many respects to Apole's Hypercard sys-I em and quite capable of turning out a game like Manhole or Cos mic Osmo - but in colour rather than simply in black

and white (Osmo was monochrome only), it's also much easier to use from the game designer s point of view because it's lailor-made for producing games rather than the jack-of-all-trades nature of Hypercard. EGAS uses typical hypermedia terminology (see page 28-30). The more normal frame is called a

'shol' by CRL, but the buttons and links are there as usual. The designer is able, using EGAS' control panel. To build up a series of links between screens (see panel on this page) and, by determining the sequences and connections, he/she can construct an entire

hypergame universe Herewith the Claes comprises 16 exhibits, 11 photographs, 25 frames of character information, and fifty frames of relevant documents. This isn't an enor-

gus McNeill, the man who used to use adverture generator The Quill to bring you games like The Baggit and Robin of Siterlock (see page 29). This connection between hyperties may not be entirely coincidental is the mous amount by Hypergame standards and there isn't any animation involved the next EGAS game will feature aramation - see panel) Furthermore, in keeping with the time period, all digitised images are in slightly out-of-focus black and white On the other hand, there's a lot of scope here for brain-stretching and you're unlikely to finish the game in an afternoon, or

nossibly even in a month. You'll find you sell backtracking through various screens and following different routes time and time again as you correlate all the evidence and build

UD YOUR CASE HTC should be available in February or March on the Actual Screen shots label for £19.95 for the ST. Other versions should follow taler Walch out for the ACE review of

this first British hypergame in the very near future. Meanwhile, we've only got one gripe: why not make FGAS available on the open markel in the same way as the old adventure utilities. The Quili and GAC, were that would really challenge the status-







M

## CE ROGUI

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## ACE AT ATEI

RK AYN SPLAY HE & C O KC " LEA

he Amusement Trades Exhibition International IATEU corrup show at Londor's Olympa exhibition centre is the UK's premer arcade trade event, showcasing a mystad of new compos, stot-machine and pribatil decks, as well as the more traditional feature gear like go-carts, militable castless and shooting epilenes.

Valors to the show consisted of modelaced salesular, bardes of hashfeldocking Japanese, and the obtained present latest compositionally all the present of the sale person of the present of the present from the compater software but furned up as well—person set year booking to shop up a well—person set year booking to shop up a well—person of the present person of the pretine guines on study! They were selectly up the guines on study! They were selectly up the purpose of the present of the pretine purpose of the prepose of the pretine purpose of the pretine purpose of the prepose of the pretine purpose of the prepose of the pretine purpose of the prepose of the prepose of the prepose of the prepose of the pretine purpose of the prepose of the prepose

## LEADING LIGHTS

Konann, one of Japan's major councy manufactures used ATEI to launch three new arcade garnes in the UK. Alens, Gradus 81 and Teenage Motari Minga Turties. Based around the superlative James Cameron mode Afters 2, the first of these games features digitised shills from the film and colourityll grissorme alem creature sprifes, as you clean up on altenmistated off-world colony with the helo of hemistated off-world colony with the helo of he-



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Purpel coix ope, got into preset



ATES AS Glightple, no use slide ( haire & stock?)

goes, grendle lauschers and fairer firmers. The game is a mentionen benegither the game is a mentionen benegither, and the stage shortlenge which facilities between thorsoltally and verticative possible processing benedities and both explained in the processing state, benedin sections list sometia and both existent processing state with a distribution of ministrating sections (sp. 50% of ministrations of the first which is of ministrations of the first which is of ministrations of the ministration of ministration of ministrations of ministratio

Gradus Air is the latest in the classic Memers series of shoot en-ups, featuring all the power ups we've come to know and love laser, missile and double, to name but a few it will of course do a slorm in the acrades, but its gameplay and visual styles, motived back in '85, are starting to book dated now when compared to the lives of XMultiply and R Type 8. Frenzy Muser Hay Turtes see ACE 20 for more on Muser Insuland massal was the best Konsorr game on stand. It's full of character and 
same are seen as the full of character and 
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The veteran US comport maker, Alar, produced two new trites to an appreciative audience. Klars as 30-perspective variation on the incredible Tetris, calling itself a factor the gene. It is graphics are bright and colourful, but the now constant barrage of Tetris-inspired controps may soon become thresome—If it hashful alreads, far more exciting was Bad-



lands, the long and eagerly awaited successor to Supersprint. Set lifty years after a nuclear holocaust, Badlands is a Mad Max road-warripr track race-sm, featuring car customisting oplions and eight tracks including city, desert

Atan's Namoo subsidiary also had an inter esling controp on show. Fourtrax is a st-down buggy-bike race simulator incorporating a thriling new twist - simultaneous head to head compelitive play with up to eight people. Many comoo manufactures are looking into multiplayer arcade games at the moment and Namco believes its newly developed hardware used in Fourtrax gives the company the lump over its compelitors

## REST OF THE REST

Among the other entertaining coin-op games on stand were Tatsum's Round Lip 5 Super Delta Force racing game featuring live-stage Chase HQ-style racing in a three-screen sildown cabnel, Sega's Op-Wolfstyle Line of Fire and Sega's Shinobilike Shadow Dancer. Irem's excellent R-Type it also made an арривление

Final Fight from Capcom is a Double Dragon style save-the-girlie kick'em-to-dealh'em-up sel in 1990's Melro City a lown not too dissimslar to New York with slum, uptown and bay sieas full of tamiliar-looking skyscrapers and scumbag inhabilants. Nothing original to be found here, but fun nevertheless,

Already out on computer formats and the Sega Megadrive. Rambo III finally made his con-op debut and in the cube stakes, Tad Corp. come out tops with its Toki scralle arcade adventure featuring a lovable monkey-esque hero complete with American Football belmet Could this possibly be the New Zealand Story

Tecmo obviously has '90 in mind with its World Cup tootball game, strangely titled World Cup '89' The game looks a bit like Audiogenic's Englyn Hughes Soccer with a side-on 3D view and plays like Microprose Soccer Unfor . tunately the player control is slow and serky. When will Anco's brilliant Kick-Off be upwraded

The most off beat con-op at the show was Mitchell's Pang You control a little chan lwbo looks a bit like the sonle out of Activision's tantasbo Park Patrol computer game) at the boll Iom of a static screen trying to avoid a giant screen. If you shoot the ball, it splinters into two smaller spheres, thus doubling the chance of you getting hit. This continues until the







sphere's gef too small and they're destroyed with another hit - then its onto another back drop, only with more speeder blobs and some on-screen obstacles. Weird city or what?

AND NOW FOR SOMETHING COMPLETELY DIFFERENT As the amusement industry diversifies away started to look back to its roots for inspiration First there was the renassance in pinbal machines, even culminating in a Robocop pir baller - are we talking streetcred? Now another

Remember the good old days - the days down to Southendon-Sea's go-cart track Peter Pan's amusement park, the sterich burning rotten rubber, the obligatory broker brakes, the older drivers who deliberately slammed into your cart when their parents

fickle lessure tastes, the go-cart!



weren't looking? Well don't get too nostalgic,

cyber and become the latest "in-thing" for cor-

porate losure weekends. These days, go-cart

ing consists of in-door Le Mans-type organised

races, vuppies for whatever they're called this year), and four stroke air-cooled 158cc carts

capable of speeds in excess of 40mph<sup>1</sup>

'cause all that's changed now as go-carts get

The Untouchables from Ocean

Refive the kinfe existence of Elial Ness in his struggle agenst the retribution of mob-

The albimate six exciting action sequences put you in control of Elliot Ness's elde squad of crime-Alleyway shoolouts. The Border Raid

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transform into a futuristic saver robot and ultimately beal the drug pedding MR BKG in the a game like no other You will be unable to tear your

self away from the screen even when it's way past midrashi' Mark Higham - ST Format



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## Laser Squad from Bladesoft

Laser Squad combines strategic skill with the use of grenades and a variety of with a friend and take turns at opposing roles. One player opti plays against artificial intelligence so highly develoed ( bites!

"Laser Squad is a lerrific game that is superbly playable of my gameplayer 'Andy Smith, Amiga Format

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## Operation

Thunderbolt from Ocean

Follow up to test years No. 1, Int "Operation Welf" The game bridgs you enhanced shootern up action for one or two players. Thunderbolt not only reporduces the honzonfally scroking gameplay of Wolf, but adds 3D action to The scenario as you lest your nerve against awooping jets, Use the loser eight or the bulletproof vest, but watch out

"Brallant is the city way to describe Thunderbott" -xoll a Trenton Webb - Amstrad Action

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ACE 02/90

OK so what's our excuse for putting Terry Pratchett in the magazine, eh? He's brilliantly funny (well,

his books are) and - oh yes - he uses

> produce his literary gems, Definitely

advanced computer



Terry Pratchell, Discmasts:

sk anyone in the street about Terry Prafchett and half the people will say who? and the rest will say yeah, brilliant. I've read all his books".

Terry Pratchett grabbed his first slice of cult status with the initial Discworld book. The Colour Of Magic, an introducton to the flat planet called the Disc and its wild magical lifestyle and charac ters. The colour of magic, as it lums out, is a sort of nnky-green, but the common thread through all the broks has always been, not the masse, but a wry sense of humour: jokes that set you up pages before they hil you, coupled with a complete mastery of the footnole gag

Up to date there have been eight Discworld novels, shortly to be somed by a north, Moving Pictures bul nowadays less time is line to actually write as Terry finds himself in demand as a speaker at sort and fanlasy conventions, doing signing tours, and answer ing the phone to people doing their GCSE projects on

You get guite a lot of mail now, something like four times as much as you did tast year. What do you get besides GCSE students?

Down the bottom of the pile to get answered are the people that think the way to write to a humorous author you like is to be rude, in what they think is a turny kind of way Like Well, I'm waling to you because I've gol nothing better to do with my time' Okay, boftom of the pile, August 1992 we'll answer that one. The ones you like are the ones who say Tve never written to an author before', that sort of thing You get some touching ones, and very rice ones But the thing is when I'm not messing around with the comnuter trying to sel if to do what I want, I can quite often spend a morning 'doing the office work', which means I'm not wrring

## What did you want to be when you were little?

An astronomer, I thought if was all looking through telescopes, you see, but in fact whal it is, is sitting in a but in Congleton doing mathematics. My daughter wants to be a Marine Biologist, and she thinks that's all swimming with dolphins, I said to her, it's all sitting in a but in Congleton doing mathematics. Funny thing is, I mel someone who is a Manne Biologist and he lold me that's exactly what it consists of

You recently collaborated with comicbook writer Neil Galman on Good Omens. You both use PC's so do you communicate by bullatin boards? And the number of yes votes goes up if you stand culside a so-h and lasticsy bookshop, but the public remains sharply divided into two

When we were doing the early drafts we thought we'd be incredibly modern and Jerry Pournelle about it and sourt the stuff down the line to each other Nei lives in West Sussex, and so we both live in a rural telephone area. We both use Procomm, basically the same modern, and we both had IBMs. We ended up doing it at 300 baud because the mistake rate at 1200 was so high. By the time we kepl ringing each other up say, 'are you sure you're on 8Nt, because all I'm getting is a row of little faces ' we might as well have yodelled to each other in Morse code and it would have been faster. Anyway the post is more or less reliable, you might as well just bung a disk in the

## Do you tinker with your computer when you're supposed to be working on it?

I do an awful lof of tinkering, but largely because I'm neurotic about backing up. Eve gol three machines, large 45M's upstairs, I back up to all three simply because I get so nervy about losing stuff. I lost Mort The day after I sent it to the publisher, because I look ishly formatted the hard disk. So they had a final version bul I didn't And when six months work nearly goes up the swanny it makes you a trifle nervous. Tinkenng has it's place. You can't sit there and pound out words every waking moment, so bashing your head in frustration against a computer casing is the next best three to a hobby

## Where did the original idea for Discworld come from?

I darno Haven't the loggiest idea. No, I know where bils of it come from, that's straightforward Indo-European mythology. The rest of it just evolved Nowa days. I actually work on ideas for Discworld I say I'd like to write a Discworld book with Death as the central character, then think about how I'll go about it. With the early ones, though, the stuff just turned up I think that the Discworld in Guards! Guards! is a much more interesting place than it was in Colour Of Magic I can do more with it now. It's very gently progressed



I dan't want a smiley face falling me to wait. I want the thing to so bene-

from the kind of medieval civilisation which all high fantays takes place in, to something which is rapidly approaching the Renaissance. This is okay, I think, because you can get more gags out of that

## You use an Atari Portfolio don't you, for taking notes and even writing on the move? Do you find it reliable enough?

"I've got to have been one of the first people to have gol one There are undoubtedly certain bugs in il When I first gal it, I look it to the World SF Convention in America, and it was great. I had about a thousand words and a spreadsheel on it and then it hung up. Resetting worldn't work. I tried everything, I even replaced the cells with the ones I gol with it, which I now assume were dead, but couldn't get it back Then when I got home I tried Iresh batteries and it came back. I was understandably curious about why I didn't get a Low Battery warring like it says in the manual So I rung up the Portfolio Helpline And they say 'An yes, it's the Duracells, see? There's this problem The slope is so sharp the Portfolio has trouble with it. So essentially what they were telling me was that if I use Duracells, which are the logical choice, I might not get a warning. But you supply long-life cells with it' I protested, in the end I thought, what the hell I made a point after that for not keeping the batteries in for longer than a month. So what's happened now is that, well I got one of the very first ones, and you know what happens to people who get the first ones of any machine?"

## They basically bug test the machine for the manufacturer?

Right, it would dopper that what Alona were liking everyone whost the butternes surf is not some land of bag you get when certain internal likes get to a specific size; I when to say that once, we ege through list bagged slage if its been fire, I did have problems at Ahmerican colonis, but will them looking at the first because they wented a GO on it, red slying to be fired because they wented a GO on it, red slying to he had to be looking at the first because they wented a GO on it, red slying to a flower limit of the land in land in the land in land in the land

## What's it like to type on?

I can type very last on it 1 did 5000 words in 10 days, which isn't my average, but it's bloody good los specific a lot of brie in aeroplanes and at conventions and stuff like that I was stiff keeping up a healthy output."

## If you could write anything other than Disc world stuff, what would you do?

In the early summer Good Omens, by mysell and Ned Giman, will be coming out, and that's a departie from Discoord II is landary! suppose, I don't know. There is no way; Londid be a seniora poyetes. Which is a shame, because I have a rather good forense. horror idea, but liknow Loral do it! I did think i show fore god, but liknow Loral do it! I did think i show pranagement.

## What's your favourite type of music?

Jim Steinman or Jam Steinman or lading that Jim Steinman, crite often. Ive got a lot of Jim Steinman and Medidod Kritan, head of him?! got Westeen by Transason Yamp, which was actually a bit of missive. The title track was superb, but the rest of the album is pretty so-so. But it's okay.



'Starglider: I vs played that till it hards.'

Discology
The Colour Of Mage:
The Light Furtisists:
Equal Ries
Mort
Ward Sisters
Sourcary

Pyramids Gwertel Gwerdd Mowing Pickers lout November 900

## Hon-Disc Beaks

Net firm was The Carset People bestime should 20 years age for jack, been Steas and Dark Social The firm is past of early soch books). The Understanding Call jackets selling call book, Air most call belook, the Brook fillings communing of Touchars foot most, Degers book should sell of their as yet untilled concluding whem jesself for book of carrier Good Drawel (seef). Net Gamen and in Ming.

## Do you like computer games?

The yet find a game on the BM which chomes color an amountary douglemen the Amountary down of Child while gift. They like the organ is Stimus I, seed to the PI and t

## What would you like computers to do that they don't currently?

They're not bright enough to articoate with your wast. I don't mad when fifthey're study, what get's up my folice as a venterio if intelligence, but deep abeing my folice as a venterio if intelligence, but deep abeing the properties of the study of the

























"DO ME A FAVOUR ...
PLUG ME INTO A SCCA"

# ACEFLASHBACK!

par your has out, nostaigs tracks, the is the final papade of the great ACE. Flashback, covering the entire decade of computer electratement. We we had goed fun combining the entire that the control of the control of

as we can fit in future issues. The address is 30-32 Farmigdon Lane, London, ECTR 3AU.

Now, for the last installment, catch up on 1986-1989; the micro boom is over, but the 16-bit revolution is yet to come!

1986

## ARRIVALS AND DEPARTURES

Lambh of the year in the UK was the long-marted death of the Commodore Ampa, shown at the Commodore Ampa, shown at the Commodore John May in the shapest ALDDO configuration of the configuration of t

The potential of the games controls, back in when we all perhapit spheroest form, readed to hand with the stand of the Stage Metals System in the what Other Stage Metals System in the America Other shows methods were stongly wandows of all forms. Commodore added an yellow display was only the standard of the standard should be shown that the standard should be shown that the standard should be shown to show that the shown that the show that the shown that the should be shown to show that the shown that the shown that the shown that the show that the shown that the show that the shown that the show that the show that the shown that the show that the shown that the show that the shown that the show that the shows that the show that the s

## CODE MASTERS

## Founded, October 1986 Set up by brothers David

Set up by brothers Dawd and Richard Daving and their lather Jim, after a year of wining for Mastertronic Pror to that David and Richard had written Vic 20 games as Calactic Software white still at school. Code Masters publishes on the pile em high, sell em cheap basis, lots of titles, all ampulse buy prices. An estraordismy high profile PR compagn in 1988-80 by West Erd consultants Lynne Franks put the Dallings on IV and in the rebonal pieces, more them one of the very less programming "celebrites". First titles: 80% Simulative.

First title: SMX Simulator

Best ever seller: SMX Simulator (all formals)



he Darlings, made media herves by their PR oper

## **EVENTS**

♠ Alan Sigari buying nut Sir Cive Sinciar was the sort of event thai tums up in appoil predictions. In April 1986 if actually happened Neone was su pulsed that Sinciar was being bught out, follow the Marwell debacle the previous year Thai if should be Amstrad, whose chairman Alan Sigari had been word to refer to the Spectrum as a "pregnant calculator", made if the sort of the way.

Armstad spent £5 million on the Sonclar name is stocks and the mights to six technology, Sonclar for stocks and the mights to six technology, Sonclar Research continued to seal and So Clave, liver from the encumbrance of decisis and wearhoose joined to give the encumbrance of decisis and wearhoose joined to ground the comparts for except portrible comparisons the ZSO Comparts for except portrible comparisons the ZSO Comparts for except portrible comparisons the ZSO Comparts for except sold to the comparison of the comparison of

 The Prestlel hackers, Steve Gold and Robert Schiffeen, made the news again when their case Isser 1985) finally came to Irial and the pair were found githly of forgery. The fines totalled £1,350, the costs a further £2,000, Gold and Schiffeen immediately appealed and the case playable back not be courts. The ACE Flashback covers the final stretch of the decade, and reveals the Amiga, the PC200, and the con-

sole conversion of

Ultimate...



he Sego Moster system is the fimust be stand a chance of mas writes penetration in the 1930's

## Birth of the Home PC

Just as significant acids Arriga taunch in the long ferm was Amstrad's decision to up-and the shifty PC mark with a range of INE completion machiners at proces cheeper than much of the software variational for them. You

continued to fall shappy the market was well open for computees such as Spectrum with the Sprobed mad. Opers and Tarryl to produce PCs at new low prices between \$500-01 (90). Amsterd PCSSSS section at \$400 years were characters are any order to the PCSSSS section at \$200-01.

was going round that the PCHSI2 tended to combast.

Amend acted with characteristic tembers, Alam Sugar called the rumeus a pack of less applicates were
sought pred obtained, and in October Amend deluctarily Installed a cooling list in the PCHSI2s with challman.

Make Shore accessions attain believed in an access and a prediction of the second accession of the second accession.

• In May, US Gold, software publisher with the Midas (south, sloped up. It had pulled off a coup in acquiring a computer games hence to the 1968 World Cup and all was set fair for a sure-fire number one game when the company discovered it was unable to get an enginal area hashed on the World Cup out in time.

Outwardly undounted, the company went ahead with all the intended pisclaging. the badges, the scores cards, the poster's and in the absence of a original piopsym included Artic's two year old Mind Cup Society. Which perhaps needn't have been a disaster in risell, but Mortd Cup Facer with the property of the company of the property of the company of

## WHERE ARE THEY NOW?

ULTIMATE SOFTWARE
Once the nindsputed masters of Spectrum programming with hits such as Sabre Wirlf, Knight Loie and Alven 8 Dropped out of 8-bit programming shortly after being taken on by US Gold at the beaming of 1986.

Leading Ultimate personnel set inp a new compary, RARE, to develop programs for Nintendo games consoles. Now have no links with the British market

## GAMES OF THE YEAR

Undry was everyone's idea of the intimate schooth scroling shoot eming. Stargher, with its 30 graphics, and fast scroling was one of the first games to demonstrate the potential of the 16-bit machines. Access's golf similation. Leaderboard was a firm favourite for its playability.



"If it's the difference between people buying the translature or mat, I'll stock a bloody fare to the Ard I between they arent bergist point spots on at I'll did that too. What's the use of me banging my head agoust a bresh used card saying. You don't need the damm fan, wouldoor?"

Alex Sugar alto the 11st avertuality every in 1986 jqueled in Procedul Weekly District 1 1887 a laptop machine which had slarted life in another era

as Pandora
Amstrad enhanced its PC series with the larinch of
the PC1640, and a range of portable machines in the
autimin. Alan introduced an up-market version of the
ST standard, the Mega STs and Commodore began
is attempt to go back to its business roots with a

range of PC compahiles.
All these machines were widely expected and with
the possible exception of the Z88 held little singnises
to was left to Acom, of all people, to provide the year's
most sensational tannoh with the first Archimedes

Archmodes' morth-watering capitalities. The Archmodes's as games inschune debite old rages. The man problem for the organia 300s was that white £1,000 was a sattragely but price for a RRIG machine, it were too high for a games micro. Set only was the problem of support, games program mers were only soil getting to gross with the possible was the Archmodes's and a cancelle legan to lay the set of the Allan St, and has cancelle legan to lay the world all he able to impaire RSU in their space time world all he able to impaire RSU in their space time was set for owned.

## ELECTRONIC ARTS

Founded (US): 1982, (UK) April 1987

Trip Hawkins left his position as director of marketing at Apple Comprifer to set in p Electronic Arts. The company aimed to produce products in the emerging entertainment and creativity market. Alongside games such as Phyball Construction Set MELE and Archan, the paint, graphics animation and music Debus series.







APPENDED

uction Set put Electronic Arts on the mean

has in its various versions, become a classic. The UK division of Electronic Arts was sell np in 1987, publishing Enropean-developed product as well as programs imported from the US.

First title: Pinball Construction Set

Best ever seller, worldwide Pinball Construction
Set (all formats); UK. Populous (ST, Amga)

## **EVENTS**

 Wruses hit the news for the first time in November hern Amps owerse were started by the message "Scimething wonderful has happened your Arman is alve". A Years Mile peckage was often programmed and distributed it at several file a rune day wonder.
 Now that PCs, such as Amstrad 1512 and 1640, were going alone the home, if became worthwhile for

## TOOL

## ARRIVALS AND DEPARTURES

The larnot of the Armags 500 and ACD00 in Macro gave garmers a straight offcore between the ACD0 and the SD051 as high specification lesure machines. Solid when Falaces busined downs to produce of their lot have although Armags buyers were officen hustiated by publishess! Intelligent of develop games for the ST and for the Armags version to be something of an ACD0 publishess of the ACD0 publishess and the ACD0 publishess that the ACD0 publishess that the ACD0 publishess are separated with the ACD0 publishess publishess that the ACD0 publishess the

The Spectrum that everyone had been waiting for, if Pins 3 with a britten disk drive, drily appeared in May, And, a year after that Amstrad buyout, we saw the fruits of Sir Clive's febours since then with the 288.



offering which tools moul \$7 and Arroga offering which tools mould \$7 and Arroga of the time looking suddenly set sity and to compound the result, a runs-immediately hursed quote the industry the Zinch was paid a few lines of Anchemodes BASIC it wasted or opens but it premise one of the few adequate ways to explain power of title. Anchemodes

companies to slart producing PC games software, or importing from the US, where the PC was outselling the ST and Amiga pull together as a home machine. The UK, very slowly, began to calich np.

In July, Steve Gold and Robert Schiffreen, now collectively known as The Prestel Hackers", won their appeal against their conviction (or forgery after breaking into Prestel mailboxes back in 1985. British Telecom decided to appeal against the appeal, and the case went to the house of Lords.

This steps finally came to an end in 1988, after three years going, through the the courts, when the Law Lords ruled final the appeal which quasthed Gold and Schiffreen's convolcions, should stand.

#### GAMES OF THE YEAR

 Universal Military Simulator, From Rainbird, noted the might that wargames, however intelligent, had to appear on-screen as though they were programmed on a ZMI.



- this changing the face of warnaming.
- Incentive's Driffer proved that Great Leaps Forward were still possible on 8-bit machines
- Nebutus, Irom Hewson, was a highly onginal arcade style game, well up to the company's usual standard
- Guild of Thieves established that Magnetic Scrolls' Pawn was only the beginning

## 1988

#### ARRIVALS AND DEPARTURES

After the future of previous years, 1000 was a qualor to rife microst. The games marked looked until of the future of the future of the future until of the future of the future of the future of CPC belong come of 86 cm. The only unfocus or games of 86 cm. The only unfocus or games of 86 cm. The only unfocus or games of 86 cm. The only unfocus of the future of 86 cm. The only unfocus of the future of 86 cm. The only unfocus of the future of 86 cm. The only unfocus of the future of 86 cm. The future of 86 cm. The 100 cm. The future of 86 cm. The future of 86 cm. The future of 86 cm. The 100 cm. The future of 86 cm

In addressing the last question, Amstrad tripped up for the first time. At the same time as launching a set of PCs designed to give Amstrad its break in the "Pan Am Jakes good care of you. Marks G Spencer loves you. Securcar cares ... at Amstrod: un want

your money.'

Well-know Superior, queted in França Wards, Odistio 1 1907 and many others.



since Uridium, or have they? Super smooth playability made this Newsou blaster on all time winner

'I believe people are sourt, not dumb. If you can give people Rolls Royers for the price of Volkswagens, I'm siere they sell buy them.'

Just Tomins, interience at the Cells and believes they are the are they are they are they are they are the are they ar



PC 200 TROUGLE

Demonstrated alongside the PC2

DGA display on the Replies PC200 showed up its man falling strenginsway Here we had a PC intervoled to play garme (their went four US Gold little bundled will it) and its graphics were stready act of date. On the other hand he use of an integral 5 inch disk dime nather than a 5 inch.

Allogether II was a most ait Americal largether To make matters were lead sown moral uncharacteristically when say ples of the PCDOI seathed Comet, moral were minus menusias minus leads manus spensing system dielu ato. The PCDOI go off to a bad start end has never quelly recovered. corporate markel, it also tacked on a 'home' PC, the

#### **EVENTS**

- Man Sugai, chairman and founder of Amstrad and if you believe the Amstrad image making machine, an East End borrow boy made good, although more ellable talk would have if that the man does possess
- able lalk would have if that the man does possess three science A levels was awarded an honorary degree by City University, London.
  - degree by City University London.

    After some years in which the pince of chips fell consistently, a succession of measures taken in the USA to protect its own semi-conduction industry against the Blood of low-cost chips from Japon left of component prices rosing and a worldade shortage of DRAM (Johanne memory) chips. Hardest hit were the low-cost PC close imanufacturers, with their large membros, low ordin machines. Amstard was forced for membros, low ordin machines. Amstard was forced to

raise prices a comple of times during the year. Atan

took the opportunity to put the ST back to £399

see below 'Only Commodore managed to remain adolf from this pricing see-saw.

In Juan Commodore finally brought the price of Amiga down to £339 99, and sales of the machine tools off all long last. For the first time the ST and Amiga were selling an equal terms. The ST had been saling at a standarion £299, but on histing the just of the selling at a standarion £299, but on histing the just of the selling at a standarion £299, but on histing the just of the selling at a standarion £299, but on histing the just of the selling at a standarion £299, but on histing the just of the selling at a standarion £299, but to histograms but offers to be selling at a standarion £299, but to be selling the se



The special course money - Alan Guerra

#### GAMES OF THE YEAR

- Robocop, from Ocean, seemed just like any other film licence at the tame. It went straight into the chart at number two at Christmas - few guessed if would still be there a year late.
- Mirrorsolt's Tetris was intriguingly developed in the Sowel Union, and proved to be one of the most addictive games of all time.
- Dungeon Master look the computerised D&D genre several steps further, while EA's light/combal sim interceptor combined solid 3D graphics with hair rassing erral action.
- Wirus was the ST and Arraga version of Zarch, the game which had wowed everyone at the Archmedes' launch

#### AMSTRAD IN TROUBLE

hat First slice of bed news were a hangover profits had fallen. Then as the company

Worse was to come In July Amstrad



much on the Gamelog, but It plays as well as its higger brothers on the

#### SAYINGS OF THE YEAR

"Like your Aunt Ethel it never severa to TO STREET

(New Computer Express 14 1 89)

A illramatic gestore is new asseted to evercome any suggestion that this company is in they in its duty to supply reliadle preducts



#### ARRIVALS AND DEPARTURES

As tax as Commodore and Atan were concerned, business was war Commodore opened fire by introducing an Air Mries offer with the A500. Atart responded by bunding games like billy-oh with the 520ST; Commodore pul Together a packaga around the muchbyoed Batman film. Atan bundled yet more pames. Commodore announced a had sold 200,000 A500s in the UK. Atan disputed its figures

Suddenly there were alternatives on offer. The console comeback actually happened - despite itself. Virgin used all the marketing muscle at its disposal to keep the Sega m the public eye, and Nintendo consoles finally began to move off the shelves dhough according to ACE reader research, they still account for only a fraction of consoles solds NEC didn't launch the PC Engine, but people imported them answay. Nontendo's handheld Gameboys were imported, begged, borrowed and stolen, thanks largely to the inclusion of Telms with the machine

Acom caused another stir with its low-cost Archimedes derived machine, the A3000, Much walling and grashing of teeth from software house, press and the public at £1,000 including a monitor, it's still not cheap erough Bul Acorn made some efforts to woo the mainstraam software publishers and at the end of the year, the jury is still out regarding the A3000's

 The ways problem became acute, though this was partly due to the surrounding hype. Publicity encouraged some programmers to devise their own viruses; fear of infection led some people to attribute any gitch, crash, or bug to a ways. The ways detectors programs and people had a field day

Many so-called vruses, such as the Friday 13th program, appeared to be more the product of hype than a concrete threat. The full effects of the 'Auds' wrus, which claims to be waiting to wipe hard disks, have yet to be seen.

 The Konix Multi-System burst into the Innelight at the Toy Fair in January with a prototype console and its magnetive add-on, the hydraulic chart. The press and softwara publishers were captivated and eulogistic artihigh above Ebbw Vale and prepared for the Muth-Svstem's grand launch at the PC show in September

In the event, the grand launch' turned into a rightmore of embarrassment, as the system failed to turn up until a couple of pre-production machines stuttered into action on the last two days. The chair was still a

Meanwhile the media remained relatively quiet. unwilling to broadcast the open secret that Kono. had run Out of money to bring the Multi-System into production, just in case advarsa publicity caused the whole house of cards to collapse The problem appeared to be allevated in October when distributor Add-Ons took a stake in the company. The Konix saign continues into

· Another muchine for which much was promised and which nearly didn't make it in the 80s was the Sam Coupe, a Spectrum-compatible games machine with



ummer has it that Ametrad offered williams for the

oped by Miles Gordon Technology, Like the Konix, Sam also suffered delays before an initial production run of just over 800 units slipped out in December

· Hacking should have been one of 1989's big stones in the end it proved a non-event. Tory MP Emma Nicholson gained a lot of publicity for her Private Members Bill but withdrew it when it was apparent there would be no time to discuss it in the Cammons. The Law Commission published a report recommending a maximum punishment of five years in prison for people convicted of altering computer data having gained unauthorised access to a system, but no antihacking bill was included in the Government's legislative programme

· Electronic Arts introduced 16-bit budget titles with back catalogue releases at £19.99, then US Gold after the success of its 8-bit budget label Kixx, set up Klassax, also at £9 99. But who else bul Mastertronic should decide that this was lar too much and at the end of the year launch at range of 16-bit games for

#### MICROPROSE

Founded (USI 1982, (UK) 1986

Major Wild Bill Stealey, management consultant and tox-US Air Force and Sid Maiar, programmer with General Instruments, founded Microprose to develop flight simulation programs with an eye to delarl and authen-

Was part of the US Gold stable until the end of 1986, when Microprose sal up in the UK. Enjoyed success with Gurship, Silent Service etc. but underwent huge npheavals in 1989 with the acquisition of the BT Telecomsoft conglomerate and the departure of UK MD Stewart Bell and affiliate label Origin shortly after wards. Now have 55 staff in UK First title: Helicat Ace

Best ever seller: Gunsing fall versions)

#### GAMES OF THE YEAR

· Populous appealed to the megalomenac in everyone as you played God with your people and lands. Meticulous programming and eeria sound effects gave weight to this original effort

· Hardly priemal, but winning all the plaudits for 16bit playability was Anco's Kick Off, with its smooth, fast, football action

 Fight simulators have traditionally been of a consist tently high standard, but Mirrorsoft's Falcon showed there was still plenty to learn

## DRAGONS BREATH





Immortality. Legend has it that the secret is hidden in the Throne Room of the Great Castle atop Dwarf Mountain at the centre of the land of Anrea.

Breed a fighting force of dragons and conquer the villages of Anrea. Collect taxes and buy magic ingredients from passing traders to cast spells. Finally, complete the Talisman that guides you to your ultimate goal.

Dragons Breath. A Fantasy Strategy game for up to three people.

ATARI ST + AMIGA

PALACE

INCLUDES FREE Spellbook



## TRICKS 'N' TACTICS



### The Ultimate **DUNGEON MASTER** Guide

Part Two

#### ITEMS TO BE FOUND BEHIND THE TURQUOISE DOORS ON LEVEL 7

Door 1 - Gern of Ages: Scentre of Life Humsley Door 2 - Dragon spil A pair of Door 3 - Crown of Nerra; Magic

Door 4 - Flamebarn, Boll Blade

#### KEYS

There are many keys that must be found to pass through the levels. the most notable of which are RA Keys - These are found on

open doors within level 7 Master Key - Found on level 12 Opens a dobt ou level 7 Ruby Key - Found on level 11 Opens a door on level 7 Winged Key - Found on level 7

Allows access to Diagon Level

#### CLDTHING

to be found on all levels. Your characters should be fully dressed in the 'toughest' items as they are found Most important is the armour which should be worn by your Iron two characters (fight ers) The most useful worn items are listed below Armour of Darc - Found on level

12 Makes you harder to see

Armour of Lyte - Found on levels 10, 11, & 12. lghter n

Flamebath - +12 to Anti-fire Leg Mail. Leg Plate. Mithral Ake-Ion, Mithral Mail, Basenett, Heimel - these dems are found through oul the dungeon It is advisable not to wear the

armous - dropped by Chaos Knights, as it is cursed.

#### SHIELDS

Shields are numerous and important for protection. They should

Buckler Small Shield

Wooden Shield (dropped by skeletous when they die) Large Shield SHield of Darc Shield of Lyta

#### EXPERIENCE LEVELS

As you pass through the levels you gain expenence in the loui disciplines Wizaid; Minja, Fighter, and Pires! You level of expertise ncreases in the following order, Neophyta

Novice Apprentice Journeyman Craftsman Artisan Adept Expert

_		_	_	_	_
NAME	SXILLS	HLTH	STAM	MANA	ITEMS
ALEX	App NINJA	50	57	13	Skra
	May MEZADO				

AZIZI	Nov FIGHTER App NINJA	Бî			Hide Shield
					2 Daggers
BORIS	Nov NINJA	35	65	28	Rabbil's Fool
	App WIZARD				
CHANI	Nov FIGHTER	47	67	20	Moonstone
	App WIZARD				
DARGO	App FIGHTER	100	55	5	
	Neo WIZARD				
ALLIE	Nov FIGHTER	60	58	22	Magac Box
	App PRIEST				
GANDO	App RINJA	39	63	26	2 Poison Darls
	Nov WIZARD				
GOTHMOG	Jiny WZARID	60	55	18	Cloak of Nigte
HALK	Jay FIGHTER	90	75	-0	Helmet
					Wooden Club
HABK	Nov FIGHTER	70	85	10	2 Arrows
	App PREST				
HISSA	App FIGHTER	80	61	5	
	Nov NINJA				
GGAJ	App FIGHTER	48	65	11	Samurai Swort
	Nov PRIEST				
LEF	App FIGHTER	75	70	7	
	Nov PRIEST				
LEYLA	Jey NNJA	48	60	3	Rope
LINELAS	Ago FIGHTER	65	50	12	Rovis

NASI

Nov NINIA

Master LD Master UM Master

ON Master EE Master PAL Master MON Master ARCH Master

#### SPELLS

Power LO UM ON EE PAL MON Elemental Influence YA VEON FLA. DES ZO

VEN EW KATH IS BRO GOR

#### KU ROS DAIN NETA RA SAR

#### POTIONS

Health Vă. M ann YA IIRO Magical Shield OES VEN YA BRD DAIN Wisdom YA BRO NETA Vitality OH are not Dexterity FUL BRO KU

ZO BRO NA The character creating these pobons must have an empty flask

Magical Torch YAR IR Magical shield Opens Some GES VEN Pasari Spell OH YEN Cloud of Poison Anti-Ghast Spell DES FW

SPELLS

(All non-material YA BRO ROS Magical Footprints ON WHITH HA Lightning Bolt Fireball FUL HED NETA CH EW RA Magic Vision OH EW SAR

Create Light

DES IN SAN Darkness ZO CATH NA Create free power gentl

OH ITS BA

#### BEASTS OF THE DUNGEON

There are many different creatures to meet in your sourcey. It is not always necessary to fight them all, many can be run around. Bureb into rooms and shut in, or simply run away from.

All creatures are unique m that they all have then own achiles heels and respond to you differently, some can be driven away while others are unrelenling in their pursint and terocity. The following is a complete list of creatures plus information to help you over come them

Mummras The first monsters to be encountered. Easy to kill on all levels Fight, range weapons to kill. Found on levels 2, 3 & 8 Screamers Easy to kill. Fight, throw items, range weapons. Due to the small damage they do to you and then slow pursuit, these creatures are ideal to practice all combat skills on One room lowards the end of level 4 recenerates them, an ideal place to practice. They can also be eaten.

First found on level 2. Blue Ogres These creatures use wooden cinbs and can cause senous damage to your party early on, Relatively easy to kill not too fast in their present of you. First tornd on level 3

Rock Monsters Hard to kill and poison you when they strike Yery slow moving and thus ideal for in/out attacks also use fireball You can drop them into pits luseful in The Room of the Gern'l Found first on level 3.

Ghosts Fairly swift in their pursuit and can pass through closed doors Use disrupt dispell, DES EW, or yorgal blade, Found first



Pink Worms Ferodous creatures that will do considerable damage and posen you. I favour freballs, range weapons and rear attacks. keep pason cries handy torind

crity on level 4 Giant Wases These are amorest the tastest creatures you will meet Don't bother with in/out attacks. Oute easy to kill, try to gel off a fireball before they reach you, if forced to hight head to head, have porson cures handy

#### Found first on level 4 Grean tentacle monsters:

These strange looking creatures are farty easy to kill and slow in then pursuit. They throw lumps of poison at you Fireballs and range weapons are advised. Found first

Flying snakes Onick moving and herce, these creatures inflict senous damage and poison you party. Not haid to kill, helpt and fireball Found first on level 5. Plxias Most annoying creatives,

they do no damage, but steal whatever you have in your left hand A treball, or it you are quick enough, a swift blow should do away with them. They gragle just before they steal Irom you out of interest, if you are asloed and any creatures attack you, you automatically awake - not so with pix

Giant Rats Dule replied these beasts. They often attack in pairs dono considerable damage. In/Out attacks are advised, also range weapons, fireballs and light rime balts. First tound on level 9 Baholders Large tentacled eye-

balls that float above the ground. Be careful of In/Out attacks as They throw massic over some dislance, I prelet range weapons and magic. Worth bearing in mind is that they are the only creatures able to open doors and gates

Mini Dinosaurs Very Iew of these will be encountered. Although slow they take a lot of hits and deliver a tare blow with

their lais Fireballs and Its/Out attacks reap their rewards, Found

Small Soiceiers Not many to be land They throw powerful magic at you but are onto easy to kill with mage and fighting, Revoxel When attacked they often transport a short distance, per haps to your side and hill you before you realise Good Policy if they transport, turn on the spot auckly to look for them Found first on level 9

Golden Scarpians Very resident beasts, require a lot of frebats and In/Out hacking Bewere of that posonors tail, they move tail ly auckly when in prisut. Found hrst on level 10

Insubstantial Triffid A non-malenal creature that tades in and out of vision. White solid, a fireball can be used but dispell, disrupt, DES EW and vorpal blade are prelerred. They throw powerful magic at you Found first on level 12 Glant Spiders Although large, no great problem. A nasty bite but in/Out backing and mapic do the job. The morningstar weapon is

gute effective. Found first on level Chaos Knights Another hard one to fell. Often attack in pairs doing a lot of damage to you Freballs down ruts where available. Don't wear the aimoni, it is supposed to

Water Elementals Pools of and doing damage cast a calm spell from wand) and in with the vorpal blade. DES EW, disrupt and dispell a few swift blows on the horn of fear will cause them to retreat making attack easy. Notel They can pursue through closed doors by flowing underneath Found test on level 11 Fire Elementals: Non-malerial.

non-moving creature. DES EW, disrupi, dispell, vorpai blade, Some regenerate after a short while Found first on level 13.

Stona Golem Only 5 of these exist, all on level 11 guarding the Tomb at the Firestaff Very hard to desiroy, taking many hiebals to get rid of. They drop a stone club use.

Devils Found only on level 13 gnarding Lord Chaos, they throw powerful frieballs and head to head combat is not advised. Cast fireballs at them from a distance

Dragon Average in its speed but univalled in its ferocity. Only one fireball is required to kill you Chase him round the pillar on level 14 attacking his rear with many hits and much magic. Lord Chaos The man himself? All

conventional attacks are uspless. you must first enclose him in a flux cage and fuse him with the Firestaff Many attempts may be recovered to kill him as he has the habit of Iransporting away throwsig powerful magic

False Grey Lord If you retrieve the Friestaff and attempt to leave the dungeon you will meet this person, see what he does, but be advised, you won't like it

#### SOME COMBAT TIPS TO HELP YOU GET THROUGH ALIVE in most cases head to head com-

bal is not advised, preferred is the allow you to get in the list blow Trapping creatures under galles is very effective because it damages them along with your

Magic Freeze Boxes and the Eye of Time should be put to good use, sometimes to escape, but better used when a creature is under a pate. This is very effective against the more resident beasts Gonghts, scorpions, spi-

ders, stone galems etc.). Dropping creatures down pits is effective, but doesn't always kill them and they may step into a transporter, reappearing at a most inconvenient time and bad place Try to weaken them first

before dropping. Always have VI potions on VI BRO (Anti Poison) potions when

fighting venomous beasts. Beware of refreating into dead ends. Even leaping into a pit may be more acceptable than

fighting overwhelming odds, it gives you time to recuperate Frequent saving is advised, especially after a big fight or solving a lengthy problem to save you

having to re-do too much if you DK that's all tor this month. In the next instalment we have a guide to the first eight levels of the

#### NOT SO CHAOTIC CHAOS!

am teling you that Chaos Strikes Back is the hardest hing since the Star of India and Tive already heard from two people who have completed if One of them is turn Urquisart of London who has upobled a map of the first

#### KEY

- L = Let
  - = Button
- = Pil
- A = Alcove F = Fountai
- DEATH ROW S

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#### A TNT Survival Guide

We recently received a niea for help from Stuart Doe of Leicestor He wates '. your Tricks and Tactrcs section is my personal hebone but I find it difficult to tollow some items. . somo at is have only just arrived on the scene and., the maze of pheases such as Poke, Bytes, Bits, etc. mean very little at most, and at worst nothing at alt. So how about a section for beginners with some of the more common phrases and practices being listed and

Trus is purte a frequent request so we thought that it was about time that TNT gave a bit of a helping hand to those readers who occasionally find the pages a title difficult to understand it you are a more experienced reader then please bear with us, and remember that everyone has to start somewhere.

#### A PIG OF A POKE

The word POKE originated as an Instruction in the BASIC computer language. It was the only way, in the onemal BAStC diatect, of

directly attering the contents of the computer's internal memory Most home computer games end no as machina code programs (even if they are gripmatly written in a high-level language like C or BASIC). This makes it difficult to the hacker to customise or adjust the program ends. The eassest way to do this is by rising the atorementioned POKE instruc-I on to directly change parts of the program that perform specific functions (such as removing a life. when you crash your mega-blaster

As an example, in a game written in Z80 machine code. tor the Spectrum or Amstrad CPC to instance, there might be some

#### LD A.(LIVES) DEC A

#### LD (LIVES).A

in the computer's memory as lollower:

38.00.80

#### 32 00 8D

Each one of these numbers to hexadecimal number in hase 16) is known as a byte Each byte has a rumber, known as an address, associated with it which indicates it's location in the computer's memory. The POKE instruction directly alters the byte at one of these addresses

Never mind about the exact meaning of the lines of code above, suffice it to say that each time the computer cames to them it removes another life. To make a new version of the program in which tives are not removed we world have to reptace the DEC A mstruction with a NDP instruction This makes the computer do nothmg at all rather than removing a tte. Supposing that the byte representing this instruction resides at address 32779 The instruction to replace it with the code for NDP (which is D) is POKE

32779,D Those are two basic ways of rsing a POKE The first, and easiest is to use a device tke Romantic Robot's Multiface This is a hardware device that plugs into your computer's expansion port and allows you to panse the program that is rinning and directly after sections of the program Becanse of the ease with which this is done, I recommend that beginners who can afford to do so buy one of these

If you do not have a device of this nature you must load the program code in such a way that the game does not run automaticatly, then make the necessary after ations, and finally start the game dong this vary from machine to machine Over the next compte of months I will be showing you techniques for some of the popular machines as well as providing some more in-depth mlo on the contents of these pages

I hope that has enlightened Stuart and others a little One thing Stuart does say in his tetter is 'please don't tell me to read a book as this only confuses me more' Wett, pomt taken, but t do recommend that you bry something the The Pangula Drettonary of Computers, which provides reasonably comprehensive definitions at the terms used here and in other publications MORE SEGA SENSATIONS

On the last battle keep to the right of does move up then back down. Oh



best way to gain points, so do differ

starts prish both buttons - this slows las per navall do this mitt the wave is times using buttons 2 and 1 1 know this sound like a lot to do, but with

if you were rumping it true obstacle When

down when the trisbee is half way up the



## **MEET THE MAESTROS**

Now's your chance to confront the teams that code and publish the games you play...in person. Check out the ACE Confer-

ence program for

Spring 1990.

to ACE Contenences offer you the rhance to join a smallselect band of ACE readers who will be able to exert real produced in Britain It's all part of the ACE 1990 Campaign to

be arranging with a Brosh software horse tor a group of ACE readers to west them. meet the people who produce the games. known. Software houses are always keen to a hear from games players now's you chance to make sine you're one of the ones they hear from



#### WHAT HAPPENS

Once yonive been selected for a particular nonference exant date and verue. You'll need to get there ander union own steam so be sine to apply for conferences that aren't too far away from where you live. Don't worry if the norment the near future and we'll be covering the whole norntry.

mcfinding Scotland, Wates, and Corneal Conferences normally start at 12.00 noon and narry on to around 4.30. You get a buffet lookh and refreshment and when you leave we'll also thrust an euronsive ACE Tishrit mto your grubby hands. The software house may well have some goodres to hand out as well

to talk dirently to the software maestros themselves They'll be ready to answer any questions you may have -

and to detend their nomer vigoronsly if you get stropped

#### ON THE PROGRAMME

Here are three nonterennes that you can apply for this month. They are mostly in the SW area - next month we'll

Antivision from the bears; Little Computer People to the ingenous Coomic Owne and the routering Super Name on

Most the lads entries got the license to the superb Stun Aumer ero

you games ranging from the societari Bards Tale series to Delaw Paint and the sky-busing latercepter



### WHAT YOU HAVE TO DO

Early month, we'll let you know about forthcoming conferences around the normer it you think you might be interested in attending one, all you have to do is send its a postcard with your name and address ritearly written, together with a daytime telephona number if at all possible. You also need to tell its which conference you would be interested in attending tone choice. only, please) and your ago. We need to know how old you are so that we can ensure a good

addition, we have to make a nominal charge at £5 00 to help rover nosts. All places are allocat. a special offer to subsymbers we are giving them priority allocations for the first ten places in each nonference, and they may also attend free of nharge. You can find out how to become a

from those who have applied and inform of the relevant details. If anyone nan't attend, they'll be

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## **ACE NEW WORLDS**

PAT WINSTANLEY CHECKS OUT THE LATEST FANTASY SOFTWARE

## DRAGONS OF FLAME

orget what I said a corpte of months ago about the hack and sky element being toned down in this follow up to the Heroes of the Lance Having finally managed to get my hands on a joyatch tive been hacked about and slain more times than I can count in the past few days. This game is hard You been by controlling the eight Company.

ions of the Lance, Towns the half elf, Caramon the fighter, Rasshi the mage, Goldmoon the clienc, Sturm the transec knight, Riverwend the plaromain, Find the dwarf and Tasselhoff Burfoot the impressable Render As you travel you will also meet up with several non-hostite characters who may on your party and offer information and highling skills.

As you attempt to talkill your quest you may come across a vanety of useful items. Acquiring an item increases your experience points and once taken can often be used by



The graphics presentation of RPG's still hands progressed very fuz; but as you can see from DOF things on getting letter - sleety

CHAOTIC HINTS & TITBITS

Any Dungson Master fans out there with an ST who haven tiget bought Chaos Strikes Back - shame on you. For those who have but ere stuck, a few tips

Connting the start as level 0 there are five fevels below and at least 4 above Levet (-5) has four math areas each of which has all least one exit through a solid wat which leads back to the main junction US GOLD continue the well received series of adventure games based around TSR's Drag-onlance books with the sequel to *Heroes of the Lance* 

accessing the menu. Apart from extra weapons and armour, rings, and potons can be tound to inflance a observative statistics or perhaps had a mastly wound. Since Goldmoon's stock of fealing spells doesn't last long you'd be well advised to find some potons fast.

While weapons may be naded in different ways and have different nears his a not always particularly useful. Obvourly, keeping your distance from minuters is described, but command is a command of the command of the command is spread the dispoly changes from your might have had lies away. This woutbirt be too bad of minutes only our may the not be did in a sole of the command of

Count the screems when you fed to judge the depth of drop Drop down a helden pit in Dain and

you titn'd yourself apparently trapped between four wats - simply step back wards (and bok out for worms!) At the Parting of the Ways, leaving

At the Parting of the Ways, leaving the retrient objects to the aboves lets you change your mind.

There are an awful lot of false walls! Anyone found a rise for the "key of B" yet? – ("we a chest full of the things

Hope you're having as much tun as me - cancel everything for a month start praying.

As for the monsters, on the overhead may bey appear yet yainter to each other but in close up there's a wealth of difference Disconsist come in the forms, Baus and Bozak of the law die summoured Bozaks and the most amount of the summoured Bozaks and the most amount to be a summour too close Other monsters would appear summour too close Other monsters yet in self tube day when Seath of the Commonster yet is self tubed by a specific strategy. Thus war dogs will light to the dash rules you for other than the cose they are unless you feed them in which case they are

With all this going on it's eavy to be sight, and of your objective, your quest to fire the sizes see of Pax Thanksis and recover the lost Myrmslay er Loral see to many player getting that fat exhibits they have the patencia of a saint seeders RPC Gike Durgeon Moster) a seeder RPC Gike Durgeon Moster) a seeder RPC Gike Durgeon Moster) a seeder RPC Gike Durgeon Moster) as one of the seeder RPC Gike Durgeon Moster) as one of the seeder RPC Gike Durgeon Moster) as one of the seeder RPC Gike Durgeon Moster) as one of the seeder RPC Gike Durgeon Moster is a seed for the seeder RPC Gike Durgeon Moster is a seeder RPC Gike Durgeon Moster is

As an and fan of the Dragonbore books both Heroes and this follow up are something of a disappointment to me as both rely for more on poystick wagging than strategy. However those of you with Jaster reactions and more practice at licratio style games will probably find Dragons of Jame a good mix of exploration and combined.

ENCOUNTERS
There's tool on time for testing workers, Parly seen
CHALLENGE
There's not much challenge in any game that elect off stenool imprecible and plays lisses, it's for too
fund for the svenage player,
ture for the interage purpos.
SYSTEM
I dislike any system which gives no alternative to t
Joyaliak.
ACE RATING
720
120

to allow the player much setisfaction it may be true (fantasy) life but as a game if will be far too difficult for more

	ELEASE	100				
Tradition					2,	
Third	- 7			Ī		0
Hazzen, Lin	-1					
(銀(後)	-		-			
alliandia	- 5					

ay back in issue 25 Stee Cooke checked and preserve copy if EAs in the copy in

Character creation is quite separate from the game itself but has a profesion diffuence on the way the plot unfolds and the difficulties you will bace You may choose from a variety of predefined characters which come with the game including an Americanish cop barried Private



## HOUND OF SHADOW

Eye a baronet with a passion for flying and a doctor's daughter making a living from writing novels

traces we used to latery any el those you are been groved by our character who may have to generate your own character who may have poptice investigator. You then defere your skills which include inding, hagging, exospology, archeology, schropology, diversophies according to name but a lew These skills will determine the way you play the game as information is offered or withheld depending upon your skill range and strength.

Set in and around London in the 1920's the polar reaches remaind a registerious and horrhynig force which you final encorater of a seance. Although you are certain that the medium is a lable the applicating the corners possessed during the proceedings and with a strange voice warms one of your fellow pathous? that the bests the marked of the house of your lable that the proceedings are the that the best the marked of the house for your man that of a warms or could be you man as that of a warms or considerable in pagit implements contributions in America.

any magnetistance and earliest state of more backing and all the Reading Foom of the Entath Systems at the Reading Foom of the Entath Writtens which becoming more aware as onetable purposes are leve as are objects and play contained to the state of the Entath of the Entath certain times to glean elementation, in fact, the peneng part of the agrier rather blass you by the noise as you follow entauthous green in the test of the Entath of the Entath of the Information you need air you have cellected at the ellormation you need air you have for expert of the resided in a more traditional way.

One aid to exploring is the existence of mysterious magical gates which are scattered around the playing area and act as teleport. Electronic Arts have finally released the definitive version of this RPG-influenced horror epic. The idea of a black magic, H.P. Lovecraft scenario set in the 1920's sounds like a sure fire

hit...but is it?





Eldritch Games, who produced HOS for Electroaic Arts: can Chrie Elliatt and Richard Edwards squeeze more out of the Timeline system aext tima?

points. Instead of tedously catching a train from East Angla to London you smoly alley on a gale, charil the correct phrase and woosh. The gates are smoly drawn on the ground and although you can't create new ones, existing ones can be weped away by enthusiastic praffin.

cleaners. The fineline system displit has a low problems in coder to mantam the flow of the notlems in coder to mantam the flow of the notlems and the code of the code of the code of the which will not led you call really our mine of the code of the code of the code of the code required to the code of the code of the code of the gene. There also appears to be something of a random element notweek, Usary one of the problet planty by legal or given the control of the code of the my room and wandered count Control hopes.

Interaction of the parser with the plot flew can cause trustration too. A command such as ENTER SHOP will be obeyed early in the game to put yeu reside a useful bookshen. Later toresumably when all required actions have been performed literal the same command elicits a plaintive I DON'T POSSIBLE Similarly the very useful GO command produces an erratic range tions and circumstances. Having spent a good deal of time wresting with the game I feel that many improvements and refinements are required before Timeline is used for other plots in the end, Irustration with the system putweighed my desire to solve the plot prizzies Hawne said thal I do look lorward to future releases on the system

	RELEASE T	XOX
ATARI ST	£24 99ck	OUTNOW
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IBM PC	Et B V	18 A 1

LANDSCAPE
Monly stranspheric sopia digitized graphics but
they set's be karned aff prior year's seen them. T

SYSTEM
As it alongs thereby past deposit hing logarities we consigly to be transported to the player existing planties of its player existing planties of its past or be solved betwee golding on with

ACE RATING 650

As a first attempt with the Torolline system Heunal of Shadow is rather a mixture. Tole is not a game for beginners but could prove an enjoyable shallongs for publish experienced adventurers.

## TIME

s (ext adventures fade into obscurity fine place is being taken by icon dive- en systems which, while making play more attractive for the nonce and younger player, can cause immense frustrations to those preferring more flexibility of imput if they en on the Hessimed.

used to the threshold in stateman as it haveled for generative the lateral early your first task is to discover what you are supposed to task is to discover what you are supposed to the doing. It seems that time anatomies can now give access to the future through which is his been discovered that nobes are going to deviately the present. That's where you come in. By solving puzzles and taking to people you must give access to visious time zones to stop the gips access to visious time zones to stop the lateral transfer.

Screen layout consists of a small vandow showing your location and other characters in the game against vanous housenfally scribing backdrops. Benealth this is a row of consist which allow you to get, drop and examine objects, direct you character's insverients and talk to other character's insverients.

Objects themselves are scattered throughout the game - but you can't see them until

#### EMPIRE break the time barrier, Should you follow them?

you pick them up. The only indication you have to one of the xcors. — at eye which opens is a your pass something of interest Orlong on the eye then shows the object but doesn't say what it is. Although objects are well drawn, then identhes can be something of a mystery. This half I blought to be a raiher fail white ring to be worn actually turned out to be a certain based of mint.

the only way to discover information is by taking to people – smply move next to your pointests with med click on the last count if the set of the pointest with the count is the set of the pointest with the count is the set of the pointest of the count of the set of the pointest of the count them reserved occasionally you offering them objects. Delegage turngs cut a wavely of joint section to be fall in love with you to a small boy section to be fall in love with you to a small boy who, when brided with in tables, tags along

#### RELEASE BOX

AMIGA CHINGS OUT NO

behind like an unwanted puppy

Having found the time machines you can travel back to well known scenes from the past which include the battlefields of the Crimea, the lone of the Carcis Maximus and even a triush with Merfu. in all there are over 100 beautifully illustrated locations to explore and rumerous characters to meet and intercal with

Apart from the niggle about objects, this should keep you puzzing happily for hours

LANDICAPE

Institution of the control of the contro

ACE RATING

look

While Time is nothing axcaptional its moderate difficulty level should appeal to most advanturers. Wall worth a



## A POWERFUL PACK OF FOUR



who are we to argue? pectacular backflip). -mixed music by ROB JBBARD And balls!

ATARI ST AMIGA

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## Open Fire!

some and forms composing in the UF for gave the interference of the food for more meant size or the food of the food for more meant of the food of property, advanced, response of the control of property, advanced, response other care, for door and worships. On the control of the control of property, advanced, property other than to food of the control of all others the great which are said to be the mean of all others property and the control of the control of the control of the area of the control of c

ess.

For gamers however, it was the beginning of the great strategy debate. Was it best to count 21 thios before a satelite appeared? Should you go for horizonvertical blocks? How could you best use the fortense os? And how do you deal with a "ship on the run" - that

0650

Where did you first see parallax scrolling? Blast

into the past with Eugeni Lacey and the definitive

ACE History of the Shoot-

спі-пр...

ged Scace lovaders in the Spring and While the punks were pogoing to the gamers were content to peel off now raders in the never anding search for

row on invasion in the never along search for laghest possible wore. For the aliens, however, worse was to come. Christines that year brought us glorious technical are opponents. The Galaxans were bue, sed and land faturing their superior intelligence by large and faturing their superior intelligence by the said property transfer.

allow, and finantial their superfix citalgence py-writing and secondary around the screen in recycle ministens. They paid for it with them loved. The action in Galicians set the screen is recycled, their about the Galician set the screen before the open-lar graphics blackadops of the future: the action took sace against a set black starry space screen, as opcound to the content discreens of Invalent. The reprovements in sound, graphics, and grantified, their catheres into pubs, 98 statiops, and ar-

The success of Galaxian sent a clear missage to the manufacturers – the puriters whited more shoot fam sips, better graphics and colour. They would not have to work long. November 1/9 save the shunch of Atani Asteroids – a vetum to black and white graphics, but this time your ship could be made to move in any direction all over the screen. It was one of the great

- 2. How much did Atan pay for the review



William's acrofling farms shoet 'em un was the first some to feature



Separ Zoppon - Liber

est games from the Goldan Age - it feathred an effective "floating effect" (inertia) that was later to be consed. Lander, Omega Race and, years later, Dids

May 1980 saw the next significant larnch in the shape of Nichibutsu's Moon Cresta This otherwise uninspiring rework of the old Galanan game featured one major break through - it offered the first power up By docking with another section of ship your fire power was increased. It was a fantastic mid-game reward, and increased the playability by grying the for downing aliens. This gameplay improvement was not missed by other gamers or developers and Moon Cresta remains a pivotal game in the development of

#### ENTER DEFENDER

1980 was a key year in the Golden Age for a much nrore important game - Defender After Engene Jarwis coded this game for the pinball manufacturer Williams the shoot 'em np would never be the same again it was the first game that could be said to be truly crit' in a macho, esoteric way white of the same time com-

What made Defender so popular was the challenge it presented - and what made it tough was its speed. even with this aid you needed fightning reflexes to compete. The game also introduced the first rescrie scenario in that you had to pick up the humanoids that were falling towards the planet floor as well as dealing with the aliens. The game was played on a horizontal plane - scrolling in both directions and with a 'wrap around effect which meant that if your ship disappeared off the the right it immediately reappeared on

Defender was also vary loud. The colourful streaks of laser fire spitting out of your ship had a screeching sonnd effect. It was the biggest, tonghest, noisiest machine in the arcade and, if you conidn't play it, you were nobody its influence on later games was incalculable the radar, rescue, 'wrap around' effects baing borrowad in countless designs - from Llamasoft's

Attack of the Mintant Camels to Logotron's Star Ray Spring '81 saw the man competition in the shoot em up wars taking place on the West Coast of Amen. Defender, Buttlazone offered the first 3D vector graphht - few who played if will torvet the first time their windscreen shattered as they were blasted from

#### INTO THE HOME

By now Atari had realised the potential of converting their comop gamas for home use on their VCS system. Space Invaders. Berzerk, Defender, Galaxian and

Sego's flest





During by the Edge Torns Tolto's three screen master proces into a one screen shoot on up for the ST and Amiga.

Asteroids could all be played at home for about £30 a throw it was the beginning of a link between the arcada and the home that world haver be broken It also made a fortune for Alari. By the end of 1983 they had sold ten million VCS's in America alone and sever al more nettron cartridges

Apart from providing Atan with the linids to develop several more classic games, the VCS begoniathed one wial, original game to the library of classic short 'em ups. The game was Star Raiders and was developed by Fernando Herrera. This was the first 3D, down it had many of the same teatures, including a progresswe rank scoring system and a palactic map. Ahowe action with the aliens emerging from the centre of the screen as tmy dols and growing larger as they

Meanwhile in the arcades those companies that not giving up the ghost Centuri shipped Phoenix in March 1981 It looked a lot like Galaxian in its earlier downing several squadrons of allens you were conbing sufficient nossiles into its mouth. This was the hrst end-of-level nasty. Since Phoenix almost every shool 'em up has had an and level nasty of some

#### BOMBS AWAY

in April '81 and following it up with Super Cobra in July Whitsi not grite as big as Defender, Scramble was another highly significant game in the development of the shoot 'em up it was the first game in

which you had to have a high regard for flight controls - as well as a gurck finger on the bomb and shoot but tons. Your ship had to be manoenvied through an intricate level of narrow, undulating corndors and passages, blasting a path as you flew. This feature was the popular home systems of the day it is still a teature of the acrolling shoot 'em np - from Gradins to R-Type - flight control is as much a part of the chall

Midway clambered back into the limelight with Galaga at the beginning of 1982. Galaga reprasented another giant loap forward in the development of power rips. There were now several sections to be bolted on to your skip - including a unique power no

#### **GASPWORTHY GRAPHICS**

In the forr short years since Space invaders the SEU had come a long way in game dasign. They were now lar more challenging with much more to do than the simple left right shoot of Invaders. But the graphics were still tarly basic. In those days you went into the ercade to see what geme challenges were to be had it wes not like today where you can stroll around end enjoy the graphical wonders on display without even having a go.

Williams Moon Patrol was a sommer in with as super's bran landscopes and penaltix scrolled! —going for the first time the autherities effect of the foreground moving leater that the land in the distance as the moon buggi runbled along the planet surface. This has become so much a part of modern gameptity that if it now a dedicated graphics hardwere leature.

Metalist effects - later to be used to such greet affects in the metal to surface in Alam Xeonus in April 25 in whet ways the fish of the models spike virtual short if me to the spike virtual short if me to the spike virtual short in the spike virtual spike virtual short in the spike virtual short in the spike virtual short in the spike virtual spike vi

Literally hundreds of games on a warely of systems have cooled the basic design of Xexuso- Futer tens have cooled the basic design of Xexuso- Futer as we cen see Xerious fised was no more then a collection of the clear shall had gove before, it was not, in Inci, a particularly good execution of the best of shoot fer up geme play features. That would come that 1984 and 1985 in games like Terra Cresta, and SUP Fields.

#### LICENSE TO KILL

By late 183 icensing was brightning to effect the shoot for up in a big way – both all forms end in the accade. It September of that year Alon shopped Size Wers – a vector graphics challenge in which the player hed to destroy the Death Star by first, down a branel and delivering the falls missile. This was a slid to the first last oil speech synthesis in This was a slid to the first last oil speech synthesis in

a game (Lef the Force Be With You!) Everyore thought that it was the beginning of a boom in talking games. The ready is that the computers were not powerful enough to incorporate speech to any estent – a fact that is still fleegly (not today, though game like Stan Rumer (Yeehoof) still make effective use of short speech samples.



**GUNG HO!** 

1985 sew the introduction of the minutes shoot artificial between so popular in recent recents the of the year was Capowit Commendo — in all directional socialing. Nam style shoot artificial Several game play all martie were thrist the date of enders had solders coming at your commence in occusionating constant ownering affinition of the control of the control

The Commission County of the C

need and land have been led on a constant deal of ever more realistic military handware. The realisance should see up exceeded the realism in Knowers of Evers flowed Common Bears' or realisms, otherwise the state of the stat

Despite US Gold's 1995 Christmas Ne 1 Gaussielf has not become a lacting classes sillhor at some on the arcades. The loar player stiefface recarded to make It work properly is only mailable on the PCEupers and the Dungeon Euplorer gains is play or Ris system is the best from extense lation at Gaussiel. Game play seco-Comments of the Comments of the comm

4. Who produced the first Weld Wes shoot empp, and shall was it colored.

5 Eugete Janus, programmer of Defender later produced a seq What was a valuable



The sequel to the enormously i consided Creatipeds, and was of t few 30 wes to employ a trakbol instruct of a joyatick

### EARLY ALIEN BIRDS

A second of the second of the



Operation Thunderbolt, Warfure has never been more graphic. Ocean home earned a feetune by centerting cain-op wheel len ups for use

Sega were continuing to make things look pretty in 50 but still falling to immore in the game design depertment with games like Super Zaxxor, 5xtr Trek, and Buck Rogers. But shoking to the 3D knitting would faller pay dividends leter with games like. Space Hernen and Atterburies.

#### HOME HIGHS

By the mod 1980's the home composter was noting highly lived game controller shall cashed and shoot from up action statistics to the home computer as through also began in settle down on the control fort all the same home Bigs Byte Bod word the sect to maked the same home Bigs Byte Bod word the sect to maked the sinst game for the Septemb by where give in size post on the biss of the maked — without even severy the on the biss of the maked — without even severy the new section of the section of the section of the section provided of the doubly all them as where the maked shoulders.

High spoiss in the encodes of 34 and 65 were the

extraordizarily prefty. Saferrander and its sequel Necresis by Koosini, Those parsis were the forestar Necresis by Koosini, Those parsis were the forestar resis at R Type. A return to boucostal scroling with stacks of power upon and themselvics effort put for the graphics of the creatives. Stakes, serpents, and school-kie seascis interns oil gaphacia end green put quality the coin ops had made a quantum leep for ward. It would take another how pairs before the harme systems would start to catch up with the founch of the ST end the Amags.

#### SATELLITES The use of power ups was becoming increasingly

sophisticaller Caspoon's 1942 was a Weak Wea' is event stool from a Plying up the screen you had to attack the Jepanese shoping which I shape out the glates and bombes. Fall the power to gate you additional fire power – but prefly soon you had add, licent plants Established recompressing you, fings on each way, and the most peverify some you had and could simple that would everything in a develop crack could simple that would everything in a develop crack in 187 but the mittage should be made that password – the his of the year Scientist.

Alail's Gauntier was the first four player shool 'em up with a Tolkien style scenario. It featured a buy

em up with a rokien style spenano. It realized a buy

reach the mega hil status of Personder for Eugene Jarrets and Williams to' option, i'e yon could jen in the maybern if there was a spare joystick by simply linserting yenr coins. You would then appear in the most oil the fight and certificated libraring away against the trolls, goblins, and often assorted nastics that occupied the mazes.

#### WELCOME TO THE MODERN WORLD

I 1978 to '83 represented the Golden Age of sheet 'em ups then 1987 must go down as the beginning of the new waye.

The year exceed with Side Arms and Solder of Legif + New stord o're ngs that pushed the power-up to the limits. The programmes were werking with new hardwrise which exabled them to draw and animate houge sorder an lad colers. Have under chorps were also on stream which facilitation a huge range of sounds As they year progressed these features became even better to games like. Victory Road, Legendary Wings and Stap Fight.

The developers were starting to innovate again as the air became filled with sew deas. Tall Antited this excreens logisher to make one constant Jalby area allewing for brilliert, long streaks of laser fire. The game was called Dravis and was a long two player int – even if the vast size of the cabnet meant that a lot et ancedes couldn't find now from the called the called

Danies was clear evidence of the increasing sophistication of the shoot fem up. It leatured a galac tic map which the player had to become familiar with – knowing the best route to take from level to level if he



Commands - Capcern.
The about on up that was number one in the home and the arcides at the same time.

was to have a good chance of clocking it. It also featured extremely tough end-of level aliens that had to be systematically destroyed piece by piece in the correct erder. The days of lighting from left to right, cellecting power ups, and blasting anything that moved were

Space Namer in 1987 ground that Siega could make things move laston, prother, not more censure, night in jerners 30 than anyere sis in the world. The addition of a hydrautic soral and the checks of a super-sent jet fighter proved an effective composation for Sega – going litter the cension bit of the years in 187 in the shape of Affichemen Thundertable followed the following year — with Sega also managing to squeeze in the drawage cannot be of the fire scale.

Britisal as they are the Sega Shoot form up at offer title to the devialopment of shoot form up game play other than like "gaspablity" of the graphus. They are the shoot of a spift seeing toot them a chellenging game. However, it's probably loo early to jugo's Segi's contribation to the development of the shoot form up. They have an excellent engine in the shope of them 3D knowhow and we can only hope they start to develop me " sophisticated secretarious for believe shorting of it."

#### DUAZ ANSWERS

proposition of Automotophysics (Automotophysics) and Automotophysics (Automotophysics) and Automotophysics (Automotophysics) and Automotophysics) and Automotophysics (Automotophysics) and Automotophysics) and Automotophysics (Automotophysics) and Automotophysics (Automotophysic

I who I have black through was " who Sended The series companies or purchased college graphics and control of the product the control of control or product the first or work is product the following or work is graphical the following or work is graphical the following to work it is product to the following or work of the first date of or you can be companied about a to come a company distinct or control or company or the or present day. Out, Recubow Arts

A effect 'cm up to play at home that is right up to date with the latest developments in the accorde

#### THE FUTURE OF THE SHOOT 'EM UP

There are both hopeful and gloomy signs as the 90's gather steam. On the down side stacks of copy cat Operation Wolf clenes are about to hit the arcades. Games like Beast Busters from SNK, and Line of Fire frem Sega offer little enhancements to the Tarto original.

On a more positive note from continue to lead the good fight for a more intelligent and challenging shoot form on. Additionally effect may make offer sins may more inversions—be immoving wargs that flow in the gush of wind caused by the movement of year ship. These contain deadly strigs that can kill the serpent by blowing against them. Incoming the player to develop his flight skills as much as his shooting skills.

Dragon's Breed introduces the first retrote controlled power-ups by letting you send your dragon off to a certain position to breath his ferry breath in a little man mission whilst you blast away elsewhere en screen You can summon yell off gon back anytime you like, kep on him and fly off to another part of the

Best of all, RType II is about to ship to the arcades as we go to press. The game offers more carefully planned shoot tern up action. If also adds an even more sophisticated power up in the shape of the Scatter Cannon.

Meanwhile, we can all accelerate progress towards the modern shool 'em up by voting with out dochs. Seek to the good genes and support them with your hard-earned dosh. It the history of the shoot 'em up preves anything, it is that the developers only shall be innovated when their revenues shat to ball.

#### R-TYPE - THE ULTIMATE?

The game that pushed the shoot will be easily more than any other in 87 eved nothing to hydraulic chairs or early generous it merical a many parameters opinion, the definition allocal emity R. Type by term, which is the property of the property of parameters that the player is in verying of parameters that the player is in verying of parameters that the parameters must be able to more and phost in tight instruce stationaries as a factority as a tilgeted with

The best event "a of the is the giant green ship that must be destroyed - bit by bit - or level tilize. It a no good boding is and - stop away at 6. You have to manipulate year power ope - throwing certain evapores in from its mer as and ... Regarded You stan have to excell gestly around it being certain to be able cruphed against this p" and audice, as the stop proves.

In F () so he game pay has been designed to other maximum interactive estentiamment; it pushes the shock or "y described in the shock or "y described in the shock of the shoc

THE ACE STOCKMARKET .....102 Which games are currently hitting the highspots? Find out start printing the right gnds! Grab a pencil and see if you in Britain's only games chart that tells you which fifles are getting the best reviews not just which titles the barrow boys are forcing onto the shelves. GAMES YOU'VE GOT TO HAVE......92

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All the events you need to know about in the coming month , and some you don't.

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#### **ASK MEL!**

We now have a full-time Pink Pages reader's fascon officer. Melanic Costin, who will Pages mailorder difficulties. If you're a dealer and would tike to place as advertisment in the series or arrange a voucher offer, contact derry Half on 01 251 6222



## THE GAMES YOU HAVE...

SOMETIMES YOU KNOW YOU'VE GOT TO FACE UP TO THE TRUTH. YOUR SOFTWARE COLLECTION IS GETTING YOU OOWN, YOUR DOG'S SICK, YOUR FRENDS ARE CONVINCED IT WAS YOU THAT LOST THE WINNING POOLS COUPON. YOUR MOTHER HAS DECIDED YOU NEED TO CHANGE YOUR IMAGE, AND YOUR GRIFFRIEND (OR BOYFRIEND) HAS JUST BEEN EATEN BY A ROTTWIELER...THERE'S ONLY ONE THING FOR IT...GO OUT AND GET A NEW GAME. AND TO MAKE SURE YOU REALLY SEE THE BRIGHT SIDE, HERE'S A LIST OF GAMES YOU'VE JUST GOT TO ADD TO YOUR COLLECTION.

## ARCADE STYLE

Including coin-op conversions. Games with e high fun fector and plenty of addictive ection feature in this category.

#### ARKANOIO

tragne ● Spectrum £7 95cs ● D84 £8 95cs £12 95dk ● Amstrad £8 95cs £14 95dk ● Alan XL/XE £8 95cs ● Marr ST £14 95dk ● MSX £8 95cs ● ISM PC £19 95dk

Conversion form A-Annoted the colorogy, or share the best version of share the best of the base of the colorogy, who was the share of the colorogy of the object to be best of the object to be best of the object to be the object of t

#### BOUNGER Gremfin Graphics • Spec from £7 95cs • 164 £9 95cs £12 95dk •

A great arcade bonnoeemup and very addictive too You guide a ball as it bounces from one pital form to another high above the vertically

above the vertically scraling landscape. Land on marked squares and you can stry abilt longer or gain a mystery bornus fell in a gap or fit one of the game's many nasties however, and you'll tose a life. Bonus bouncing sec.

bons at the end of each level help vary the pace, and those tough gaps really keep you coming back for more drught, with graphics, great music - and it's sa chooking.

## \* ACE CLASSIC BUBBLE BOB-

Frebrid • spectrum £7 95cs • C64 £8 95cs £12 95dk • Amstrad £8 95cs £14 95dk • Atan ST £19 95dk Playablety is the essence of this two-player comes conversion. You and a freed play bribble-blowing divo sairs, travelling through 100 mare-and plutions screens, highling off the brilles by enced subtring them in your bub-

sulating them in your bubbles to turn them into jucy frust. More firepower and various botinises await as you reach the more difficult later screens. Enormously good fun, if a little on the cutesy side. Can also be played as one player.

## \* ACE RATED 959 CONQUEROR Supenor ◆ Archimedes 224 95th (Amiga and ST versions under development)

own famili Blass the enemy is close comball and plan you skealegy for the campaign. This is a lockly gime to get to gros with, but it you persevere you if find you soon become mesmensed by the thing. It you arm t got a 1860 Arche inhoust—forcest 45

#### ELIMINATOR

Hewson ● Spectrum £7 99cs £12 99ds ● C64 £9 99cs £14 99ds ● Amstrad £9 99cs £14 99ds ● Amiga £19 99ds ● Amiga £19 99ds

Graphically wonderful roadway blast emup by John Philips, which will twist your poysick asside out Iffil even have you drawing on the ceiling Though it's lenigh to get to graps with all first, the addition level is so great

#### EXOLON

Hewson ● Spectrum £7 95cs ● 064 £8 95cs £12 95ck ● Amstrad £8 95cs £14 95ck

Graphically superb terrocredially scroling shoot emop at which you run, duck and jump your wallalong a planel?'s surface blasting away or alen celesces. A ginn and a missire lamicher are tiseto blast the foes but it things are still too lough then you can grab an eacukeleton for eaths po lectors and her oweer.

#### NEW ZEALANO STORY

Ocean • Spectrum £8 95cs, O64 £9,95cs Amstrad £9 95cs ST £19 09 Amera £74 99 Although papped all the post in a freed to freed with Rainbow Islands, New Zealand Story is not a game to be ruted out it is immense but to play, provides lots of varied action across many levels. Deh-

## ACE RATED 975 OIOS Merorsol • Atarr ST

A magnitized Thrustish blast The Dida are relying on you to save them, but the Blocretes aren't going to let them go without throwing missies, rockets and a nember of other weapons at you to toked with the program is an edit facility that allows you to design your own.

## ACE RATED 969 PITSTOP 2

Eppx/US Gold ● Averable only on Epyx Epics compilation ● C64 £9 95cs £14 95ck ● £9M PC £29 95ck (In compilation with Win-

Games 2

Thritting racing game where the screen is spit into two and you can not the computer or a fine of Lots of different Grand Prix chords, type blowouts and of course the a important pitalions ginar infect to give you hand creams and your father.

\* ACE CLASSIC

### POWER-

Electronic Arts • Alari ST

This superb arcade-style faturestic driving simulation withhave you enthratted for months to come. If may not be termibly easy to get straight with but it is well writh.

#### playing this for months \* ACE RAYED 925

URN OAY Exxos • Atarr ST EZ4 95dx • Arriga

A territic mot of games in at delivers puncti both addo and visual. The consistently good gameplay etistres you it espoy play ving each sub-game time and again it is a lattle tricky to get the hang off but mader it and you'll be pleased you persevered.

### RAINBOW

Firebrid Spectrum £9 95cs £14 95dk C64 £9 99cs \$14 99dk Amstrad £9 99cs £14 99dk, ST £24 99 Amiga £24 99

The sequel to Bubble Bobble is nothing short of tentestic. The graphics and sound are shiperbillas is the gampplay. One of the best (and + ACE BATED 634

## Microstyle, ST £24 99.

supply of tast paced bike gnole lie tuo bied 21 leisb the route with your nider An excellent mix of » ACE RATED 615

#### SPICERTRON-Ere Infernational · Atari

Gode your spider like correct order. The built-in

#### # ACE HATED 903 SUMMER GAMES Epyx/US Gold • C64

£9 95 cs £14 95dk •

board throng clay pregon Vault - and others - with \* ACE CLASSIC

#### SUPER SPRINT Electric Dreams @ C64

Anstrad £9 99ts Spec trum £9 99cs . Atan ST

conversions currently

and funcus and it will take Tortuous circuits that \* ACE RATED 907

## THRUST

Firebird • Spectrum £1 99cs • C64 £t 99cs Amstrad £1 99cs

trols and a targe helome this budget title an absolute niust. Flying down enemy held planet, you enough as it is but their your craft. Very mean,

#### \* ACE CLASSIC URIOIUM

Heason . Spectrum £8 95c4 @ 064 £9 95cs £12 95dk • 880

dodging around any terge head and shoulders above sions conie packaged

#### ACE CLASSIC ZARCH / VIRUS

Superior Software . Archmedes £19 95dk • Alan ST £19 95dk ● Some Blot versions under

#### \* ACE RATED 981

### **ADVENTURES**

After a brief surge of RPG related popularity, the traditional text-entry adventure is rapidly disappearing But for those of you who savour the powers of the imagination, the verbal twist, and the thrill of encountering other characters, this game genre still has much to recommend it. Here are some of the all-time great computer fantasies...

#### BEYONO ZORK

Infocom/Activision • 764 £19 99ch • PC £24 99ch Armes £24 99di ◆Atan

Cocosut of Quendor in a eameolay Text-only but

\* ACE RATED 902

CORRUPTION Ratibird • Atan ST £24 95dk • Amaz £24 95d) • PC £24 95ds Spectrum £15 95/k ◆ 054 £17 95dk e Amstrad

nai-bone plot makes this a

This tale of moder deal

#### \* ACE RATED 920 FISH Magnetic Scrolls ◆ PC

MS s best release since # ACE RATED **GUILD OF** 

#### THIEVES Ranbird ◆ Co4 £19 95ds. Spectrum £15 95dk ◆ ◆Amga £24 95dk ◆Atani ST £24 95dk • PC

One of Botan's newer adventure software houses - Magnetir Scrolls - nove ful parser helps to create

#### \* ACE CLASSIC INGRID'S BACK Level 9 e Aton ST £19 95dk

A great follow-up to # ACE RATED 920

### JEWELS OF

OARKNESS Ranbrd . Lb4 £t4 95cs · Annirad £14 95cs £19 95(\$ o PC £19 95ds Amex £19 95dk ◆ Atan

releases, Cotossal Adver-

## \* ACE CLASSIC

LURKING HORROR Infocom/Mediagenic e C64 £19 99d ◆ ST 524 99 I Armsa £24 99 • Infocom s tribute to H.P.

college laboratory. Superb test-only game that defes

#### TIME AND MAGIK

Mandann . Spectrum £14,95cs £14 95dk e 064 £14 95cs £14 95dk £14 95cR • Alan ST £19 99dk . Amgs £19 99ck • PC £19 99dk

This compitation of the Time Red Moon and The Price Of Massik have been re-vamued with better parsing bigger vocabular

#### \* ACE RATED 918 ZORK ZERO Infocom Versions due out

about now Watch this

#### **PUZZLES** If you're after a game that will pro"

vide you with a real challenge. without necessarily requiring large doses of strategic thinking, then it's a puzzle game you want. BONEnetic exprensent as the

#### CRUNCHER Superar Solbigre • C64 £9 95cs11 95dk · Amga

At first sight this recent nothing more than a book its own Flightly recomrather than shoot them

**OEFLEKTOR** \* ACE RATED 946 --

## BDULDERDASH

D54 £2 99c+ ◆ Amstrad

A game that has everything - instant addiction extremely Incly puzzles hidden in caverns, digging away parth and boulders seemingly impenetrable miss in its budget incarna

nlock ticks down and

#### \* ACE CLASSIC

Gremtn/Vortex • C64 £9 99cs · Spectrum £7 99cs • ST £19 95ck

Onto s are the order of tho day here (not the sport dry tries to connect a laser

number of cells that are on screen as well. You'll need to make full use of am. Clear the bist screen stuff that's hombly addic \* ACE BATED 906 -

### **NEBULUS**

Hexton ◆ C64 £9 99cs £14 99 da • Atan ST

rai of platforms, lifts and roule its a highly original \* ACE RATED 843

#### SENTINEL cs • C64 £9 95cs

Firebrd . Spectrum £9.95 top of the screen your £14 950k • Amstrad £9 95cs £14 95 dk • Atan ST £19 95dk • proved to be rather van simple idea behind them

mentally you have to absorbing yours. A clean ger are both necessary in 10 000 possible land-\* ACE RATED 963 AMIGA

#### SKILLE DIGGERY Nexuso Atan ST £19 95

mactime. Again (see Bouland for diamonds in caverns over a hundred differ ent screens, with a lime playability leasur screens

#### \* ACE RATED 913 - ST SPORE Bufdoe ◆ C64 £1 99cs ◆ Amstrad £1,99cs ◆ Spec trum £1 99cs

The wrning combination make Spore a worthy fulpriced release, what a bargain then to be able to pick it up for £1 99" \* ACE HATED 519

## TETRIS

Mirrorsoft · Spectrum £8 99 cs @ 054 £8 99cs £1.Z 99dk ● Amstrad £8 99cs £12 99 ck ◆ Aban ST £19 95dk • Amga £19 99dk • ISM A lastmating geometrical oddity, this Russian puz

aler furns the obscure

mathematical topic of One at a time, shapes fail down and pack them tight spects, but the brilliants a look whatever your \* ACE RATED 958 -

## THINK!

Firebrd • C64 £1 99to • Amstrad £1 99rs • Spec town 61 00cc Ongo ally released by Ano-

averiable for a traction of played on a 6x6 and either one or two player in which you attempt in connect four counters diagonally \* ACE CLASSIC

Logotron ◆ 88C £9 95cs £12 85dk • Amstrad £9 95cs £14 950i+

collecting masks through 15 complexity as you progress ritarizens in musat mitten blocking the masks and just

bring your quest to a premiu tire end. Later \$18 things hot up as bombs, transporters and dolls corsore against you. Shooth scrolling, smale praches.

## SPECIALS

Original works that are simply unclassifiable feature in this sec tion.

#### ATF Distal Integration • CS4 £8 95cs £12 95dk o

£12 95dke Spectrum £8 95cs £13 95dk Excellent combat/flimble change for Digital Integra-

solid actor, the result

#### DARK SIDE Incantive • C64 £9 95cs

£14 95dk • Amstrad £9 95cs £14 95d+

ming system, which sets lenge. The 3-D graphics are again superb as are \* ACE RATED 315 AMSTRAD

#### ELITE

Firebra • 064 £14 95cs £17.95dk • Amstred £12 95cs £14 95die BBC £13 95cs £14 95dk

Still the best space trading game. Fife set a standard low One of the test source

twely) sale systems, or run the gauntiel of praies in the galaxies danger socks with your hold tall of contratund Either way

there is a nice line in zero-G \* ACE CLASSIC

#### INCREDIBLE SHRINKING SPHERE Electric Distants • 054

£8 99cs £14 99ds • £14 99di • Spectrum £9 99cs £14 99dk • Atan \$1.£19.99dk • Amga

gameplay Tricky puzzles des will have you rolling around in delight \* ACE RATED 923 -

#### M1 TANK PLA-TODN Microprose ◆ PC

This is a welcome break keep even the most corn

#### MAGNETRON-Firebind + C64 £8 95cs £12 956k · Spectrum

Tomer style. Save the enemy droids to upgrade ly make your job a lotte eas

#### # ACE RATED 904 -SPECTRUM

OUEDEX Thalamus . 054 £9 95cs

In this moressively chalsteer a metallic ball through sen different of added features to make to the next somen for terest screens or planes an any order you wish \* ACE RATED 934 -

#### SPINDIZZY Electric Drettms . 064 £9 95cs £14 95dk • Spectrum £9 95cs •

Tremendous stuff; steen YOUR SOMETHING TOO COVER lect lewels, against a system of cetwalks. ramps, towers and trampo lines surrounded by lethal gross and NO safety rais.

#### \* ACE CLASSIC STARGLIDER 11

Rambrd . Atan ST £24.950k ◆ Amga

looking every bit a winter You've got a targe task to complete and there's plan + ACE RATED 927 - ST

STAR TREK V Mndscape . Pt. £34 99dk ■ BART STA ODAV

The gameplay provides absorbing and challenging

#### \* ACE RATED 930 TAU CETI/ **ACADEMY**

GRL . C64 £9 95cs £14 95dk • Amstrad £9 95cs £14 95ck ◆ Spectrum £9 95cs • Atan ST £19 99dk • Arriga

both recredibly smooth and well out together. The cable as you set off on space cadet. In Academy \* ACE CLASSIC

#### TOTAL **ECLIPSE** Incentive . C64 £9 95cs £12 95ck · Amstrad

Freescape system is a bit eclipse youre batting 1930's trying to prevent

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WIZBALL DCEAN ◆ 064 £8 95cs £14 95dk • Amstrad £8.95cs \$12.95ds • Spec

Become Wichall and coswhich are intent on element

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piete full game A bril-

lant RPG purchase even

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stone in Advanced Com-

Dungeon Master offers

going to make Dungeon

Master on a of the best

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POOL OF RADIANCE

a C64 £14 99gk

SSI were very brave to attempt to croture the complex concept of the

AD&D system on a com-

puter, but they managed

appeal to not only ADAD

game that will keep them

mg for an enthraining

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spells, atmospheric

MASTER

THE BARD'S TALE II £16 95, Arraga £24 95dk

decessor to Bands Tale N advance. THE Armea ver when you enter a temole graphics. And ot course, twounte characters, their + ACE RATED 920

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The latest Band's Tale game offers a number of refinements over its oredecessors (all of which between you and your opporents Finally, the

sents expellent valua for + ACF RATED 920 BATTLETECH Macom PC 579 95, ST

Battletech teatures some

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coodsept and learning the magical tactical, and geographical secrets that wal enable you to deleat the forces of exil far undererround Superb romp

great lasting interest, and \* ACE RATED 928 WASTELANO Electronic Arts . CS4 £14 95dk

USA whooping mutant burrole-playing epic. The Tale senes of games, but

strategy leaves the cut, slash and spell scenaro pt \* ACE RATED 521

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contract bridge smulabons, with large playing cards deputed against a suitably green back back ground Plays a good which after all is a bit short in the manemation and flar department), and Seatures a wide range of ventions which you can

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11 SUNDAY 12 MONDAY 13 TUESDAY

Check Yeager, first man to tily tester than the speed of sound from this day in 1923. Licensed he name to Electronic Arts' Chuck Yeager Advanced Flight Trainer - a supersonic liight

WEDNESDAY

THURSDAY

#### 14

SI Valentine's Day. The original SI Valentine lived in the tourth earliury and there is nothing in the life history, or in the ligendes surrounding him to suggest why he might have inspired the practice of sanding Valentines, which ere more lifely to have originated as an ancient page.

Anniversary of the introduction of decimal cur-

rency, in 1971 16 FRIDAY

17 SATURDAY Birthday of Barry Humphries, or should that be Dame Edna Everege, 1934

Birthday of John McEnne, 1959.

WEEK'S RELEASES AT A GLANCE Finebird: P47-Thanderboll (Amgs, ST) Second World War all combat action, from the Jalin-

C0 controp.

Ster Wers Trilogy (PC compalibles) Compiletion featuring the three Star Wars sucude

Mindscape Gin & Cribbage (Amiga)
Reinbird: Midwinter (PC compabbles) Mike
Singleton's latest, a late of strategy and confrontation in the new Ice Age

18 SUNDAY National Day, Nepal Independence Day, Gam bia Birthday of Bobby Robson, 1933

9		MONDA

20 TUESDAY 21 WEDNESDAY

Feast Day of St Pelet Deman, rehowned for his seventy. Known for representing one bishop because he was indulging in that most frivolous of activities - chess

22 THURSDAY
23 FRIDAY
24 SATHEDAY

WEEK'S RELEASES AT A GLANCE Impressione: Renalissance (Amigs, ST) Rainbaid: Tower of Babel (Amigs) ACE rated at 930 list month, ercade puzzle game by Pele

Welnd Dreams (CSA lape and disk) Explore your nightmanes in this accide adverture Domaik: "Hard Drivlan" (Archimodies) 3D race featuring speed and sturil tracks (including the inflamons loop the loop) translated onto the

25 SUNDAY
Nebonal Day Kriwall, Feast Dey of St Ethelbert
of Kertl, the king who built the first St Paul's

26 MONDAY
27 TUESDAY
Shrove Tuesday Pancaka Irms avenyone

28 WEDNESDAY
Ash Wednesday - beginning of Lent, Birthday of
Barry McGuigan, one time world flyweight boxing champion and of Barry McGuigan's Boxing

### MARCH

cathedral in London.

1 THURSDAY St David's Day 2 FRIDAY

3 SATURDAY Anniversary of the Thione (National Day) WEEK'S RELEASES AT A GLANCE Cinemewere: Amica (1Mb only), Ant Heads

Cinemewers: Arriga (1Mc only), Ant Heads (A Came From the Desert date, dels). Sequel to the acclarmed B-movie inspired Cinemewers blie. The ants are back, in all their plannium-chaloried glory. Requires the original disk and a 1Mb Arriga to operate. Mindsappe: TV Sports Bissketball. Basketball Mindsappe: TV Sports Bissketball.

action simulation
Firebird: P47 - Thunderbolt (Spectrum, C64,
CPC) Second World War as combat action.

CPC) Second World War as combit action, from the Jeleco con-op

4 SUNDAY Birthday of Kenny Delglish, 1951 5 MONDAY

6 TUESDAY Independence Dey, Ghena, Daily Mail Ideal Home Exhibition opens (continues until April 1)

WEDNESDAY
THURSDAY
FRIDAY
SATURDAY

#### WEEK'S RELEASES AT A GLANCE

Etectronic Arts: Powerdrome (PC compatibles) Fnlunstic racing game set in an outer galaxy

q

Domerk: Herd Drivin' Extre Tracks (Amgs)
More Blunts more twists and turns in this Hard
Drivin's accessory disk
Reinburd: Welrd Dreams (PC) Arcede adven-

ture in the teleme of the subconscions.

Tower of Bubel (ST) Herd to define puzzle
game with an ACE rating of 930,

Midwinter (ST) Mike Singleton's latest, eitale of
strategy and confrontation in the new los Ace

#### GET YOURSELF IN THE DIARY!

Whether you're a software house with a bank or a chartly with a kinch let us know and we flip by you in the ACE dairy. Write to the ACE Dairy, 30:32 Faring, don Lane. London, ECTR 3AU. Print deadines the second Thursday in every mosts.

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## THE ACE STOCK MARKET

THIS MONTH WE INTRODUCE SOME MAJOR IMPROVEMENTS TO THE STOCKMARKET LISTINGS, DESIGNED TO MAKE THEM EASIER TO USE AND EVEN MORE INFORMATIVE, AND DON'T FORGET: YOU CAN WIN A PRIZE IF YOU CAN PREDICT NEXT MONTH'S TOP CAMES AND SOFTWARE HOUSES.

hts is the fourth time the ACE Stockmarkel has been published, and we vemade some big changes and the stock of the and relax. Because if sell very simple. Here is a time traplanation for everyone who's still chewing their fingerelis off. If is in two parts first, how the Stockmarkel works, and second, how you can win prizes.

#### HOW IT WORKS

ROW IT WORKS.
Each month, ACE researchers read EVERY
major British computing magazine. They note
down ALL the review valengs for the games
reviewed that month, log other with the name of
the software house, the monther the game
runs on, and the name of the magazine, the
review appears in

They then feed this information into a spreadsheet and calculate the detail makes up the charts you see on these pages (called 'Counters', because this is a market, right?).

There are three counters that deal with games. First, there is the MACHINE COUNTER. This tells you which games have been getting the highest review marks for each machine.

Remember – unlike other charts, fins one is based on reviews, not on sales figures. This makes it much more neeffle to you, since you can see at a glance which games are likely to be the best boys for your machine. Of course, in an ideal world, the games that the get the

best reviews should get the most sales, but flor venons commercial reasons) this doesn't happen and as a restall charts bested on sales are NOT a good givide to what you should buy —they re just a gurde to what the shops are selling.

In addition to the Machine Counter, there is a show you which are the best reviewed 16-bit games and the best 8-bit ones. You can draw some interesting conclusions about 8-bit and 16-bit games by comparing these two charts.

This one is a little more complicated, but still it's really pretty basic stuff.

The aim of the Company Counter is to tell

you which software houses are currently producing the most successful titles. Each company has a THS MONTH rating, which is celculated according to the reviews its games have theored dinning the current month A company whose games are all ratled highly will have a high THIS MONTH score.

The neal rating in the company counter is the SHARE PRICE. This simply tells you how well a company is doing residite to its past performance. If a company gets werse reviews this month that hast month, that price will do get better reviews, the price rates. Companies who get no reviews at all have their price decreased each month mit they get reviewed.

Associated with the share price is the +/rating, which simply tells you how much that
company's share price has risen or fallen this

Finally, there is the company is NIDEX RAT MIG. This shows how well a company is games have done this month companied to the average score gamed by all the other games reviewed. It is its rating that determines the position of a company in the charts. The everage score lot ALL games reviewed each month is called the SDFTWARE INDEX and it is printed at the top of the Company Counter.

In other words, if a company's Index rating shows a + figure, that is because its games have scored higher than the industry average during the corrent month. A minus figure shows that its games have scored less well than the

That's all there is to it. Now all you need to know is how to win prizes, you can find out on page 106, as well as seeing some of this mon-

#### NOW IT'S EVEN EASIER TO WINI

Ynp, you now only need to fill in your predictions for the top threa entires in each chart fit used to be five, And you don't even have to get them all right to stand a chance of winning. See page 106 for details. The entry form is on page 112

## THE COMPANY COUNTER

To get mito the share price listing, companies need to be recessing products reviewed by magazines. To see their fortunes rise, they need to be consistently improving their product, in the short term, the "one-hill wonder will neem to do well: in the longer term, consistency will pey off

oer will seen to do weet in the longer term, consistency wal pey off.

Companies rating 100 and marked " are 'new entries'. They haven't
featured in the Company Counter
before, and a company's launch
state none a places 100. Company
This MONTH'S SOFT

share pince is always 100. Comparies with an existing share pince, but who have no review ratings at all in a particular month, will lose ten consis-

from their share price for each month that no reviews appear.

This month, we also see the first appearance of the Software Indee

This charts the performance of a company's lifter relative to the Software index rating. This figure is an overall average mark for all the reviews given in the previous month. The Software lindex shows how many marks above or below the average rating each company's bitles rated.

#### THIS MONTH'S SOFTWARE INDEX RATING: 71.58

Ongo's leap to the top of the ratings comes from an enthusiastic reception to a pair of Commodare 64 titles - not an area the company is best known in New placings on the Stock Market this month include.

Stock Market this month include Dynamic and FTL - Chaes Stricts Back appears to be living up to expect the proof that that life is banked by the strict of the strict of

	-17 WC 20	30 000 0			C OT LIC DUTINGIC	. stoppe	10000	2 11/63/2	4170 2248	the 18 foriginal o	se top			
Politisher	This m	enth	+ 81 -	Rating	Cissmaware	8414	-7,74	\$1.58	12.58	Micro Style	77.83	+3.71	106 01	6.25
Index					Pendora	83.5	75.00	100"	11 82	US Gold	76.73	+0.13	100,17	5.15
Origin	97.5	n/a	121.97	25.82	Sierra On-Line	\$1.5	o/c	100"	9 92	Reinbow Arts	76 18	47,53	110 97	4.6
Dynamic	96.5	n/e	100*	24 92	Empire	21.25	pia	108"	9.17	Firebird	76	+0.34	100.45	4 42
FTL	92,82	rs/m	100*	21.25	Ocean	81.07	-5 57	53.14	9.45	Payolapse	75.59	n'a	108"	4.01
Delphine Palace	895	+4.25	104 99	17 02	Inngrarise	90-57	9.0	1001	9 09	Screen 7	75	n e	1001	3.42
Beau Jaffy	85	n/E	58.46	13.42	Electronic Arts	90.42	-0.07	99.91	9.84	Uhr/Soft	74 84	+10.09	115.63	3.06
CP Soltware	85	B/E	100°	13,42	Pit Seved	78 99	+1371	121 51	7.28	Virgin	74.26	-0.00	22,00	2.61
Blade	44.75	. E on	100.00	12.17	Wassesses	20.12		44.57	6.75	Bath Salar	70.00		404.04	0.00

#### THE PINK PAGES 103

Shades (G'Slam) System 3 Thatamos

Reinbird	73 83	-7.23	90.52	2.25	Players Promier	91.54	+19.87	147.65	-10.0
Gremlin	72.22	-3.01	96	8.64	Players	<b>\$1</b>	nls	1001	-105
Mindscape	719	-8.51	89.42	5.32	Titue	90.06	nis	100"	-11.5
Domark	71 44	-0.23	89.68	-0.14	Magic Bytes	00	n/a	190"	-11.5
SSI/US Gold	71.33	+7.5	11175	-0.25	ARC	50.5	na	100*	-130
Addictive	71.2	cuis	100"	-0.38	Kinx	58	el .	101.75	-13.5
Ance	70.67	-2.12	9709	-0.81	Encore	58.9	+9.58	120.27	-146
SubLugic	713	n/a	100"	-1.58	Starbyte	SB 67	n/a	100*	-14.9
Accolede	59.21	-5 B4	96 67	-237	COS	55.5	-7.97	97 44	-16.0
Epys/US Gold	69	o'a	54 51	-2.58	Alternative	\$5.06	+7.06	114.71	-19 5
Code Mesters	68 13	n/a	108"	-3 45	Acti Screenshols	45.75	28	54.96	-25.8
Mastertronic	67.3	n/a	106.83	-4 25	Artronic		20	47.41	0.0
Infogrames	67.24	-6.73	90.9	-434	Belhesde		0.0	-00	D)
Psygnasia	67	-4 33	03 03	-4.58	Byte ösck		09	74.37	0.0
Grand Stam	66 75	0/8	119.03	-4 83	Digital Int n		D/a	55.6	n)
Readysoft	88 75	D/B	100"	-4 63	Dinamin		n/a	11872	D)
Wicked	65 5	D(8	103.58	-5.00	Geinster		D/8	91 97	0.0
Elte	65.33	-6.64	93 64	-6.25	Image Works		nis	30.53	Di
Digitals	6S	n/a	100"	-6.58	Impreselons		Dis	79.78	D)
Leisure Genius	65	n/a	106"	-6 50	Infecom		Dis	65.21	D)
Smash 19	55	-15	B1 25	-6 58	Level S		Dis	83 91	n)
Hewsen	84.84	-4 96	92.86	-7 04	Microlitusions		D/a	87.41	D)
16-BIItz	84 33	+26.33	168 28	-7.25	Navagen		D/a	80	n)
Edge	84.18	-2.56	96 16	-739	PSS		n/a	497	p.)
Legatron	63 75	-6.45	82.12	783	RAD		D/a	\$8,101	n/c
Tynesoft	62.31	O/H	100*	-9 27	Reilna		Día .	100.5	nt

Pre-Zennis from Ublsoft has dons wall in ACE this menth. Now will it sfroot the charts nest menth? Watch out for Microgress a Midwinler, too - It's bound to have a major Impact an that company's pacifition as the Company Counter and in

77,06



#### THE MACHINE COUNTER

## AMIGA RATINGS Operation Thursderbolt Oosen 93 47 Drakkhem Infogrermas 91.67 Shar Care Hazer Africa Style 69 75 Rock Care Hazer Boster Despet Service Style 69 75 Polare Warn Despet Despet Despet Service Service 85 61 Desphine/Palace 67 75 Coran had text months in higherer raded guare with

F29 Ratalistat the month, Operation Thunderbott takes over the top slot. Start Car Recerand It Carrie from the Desert continue to attract high.

#### COMMODORE 64 RATINGS

Ghouls n Ghosts	US Gold	67:
Turbo Quirun	US Gold	86
Bushido	Frebrá	78 -
Sim City	Infograntes	74
Eyn of Horus	Logotron	88.2

quality rather than opening with only the two US Gold titles consustently scoring over 80. Interesting to note that while the C64 definitely find the best various of Turbo Curran, it was the poemics format

#### AMSTRAD CPC RATINGS

Ghastibusters II Activasion 65.5 Scapeghost Levil 9 85.5 Operation Thunderboth Ocean ISI 35 Hard Dinkin Dannik 82.5 War Machine Players Premier 82 Ghostibusters If hangs onto the top slot demon strating that life sally reviews caught the eceanor of the game on the stema, anyway Scapeghors

### elweys e strong mathine for graphical edvantures ATARI ST RATINGS

Chaps Strikes Back	FTL	928
Tower of Babel	Rambrd	91
Future Wers	Desphine/Palace	. 8
Stunt Car Recer	Micro Style	
Chouls a Ghosts	US Gold	84.5

There were high expectations of Chaos Schlass Block and the vendict is that it doesn't despipolit. Barribird too can usually be relied on to produce quality releases and white Ward Divisions hasn't set the world alight. Rower of Babet has been very

#### PC-COMPATIBLE RATINGS

Indrarrapoirs 500	Electronic Arts	91.09
Their Finest Hour	US Gold	57
Dru Herd	Activision	85.5
Neuromancer	Electronic Arts	85
Populaus	Electronic Arts	83.5

The poor PC lum-out last month may just have been eightch PC owners have something to spend their money on this sine. Electronic Arts is three tiering to dominate the chart, especially as it has plenty more PC programs to release the

#### SPECTRUM RATINGS

hase HO	Ocean	
houls in Ghosts	US Gold	88 67
and Dravin'	Domerk	87.85
oper Wonder Boy	Activision	BG 25
peration Thunderbolt	Opean	85 88

Chass HC may have been received poorly on the Commodors 64 but by common consent 4s the best Squarem game around 4t scored over 90 points last month as well.

### THE 16-BIT COUNTER

The follow up to Dumpern Alasser goals straight in an number one on one timal alone while Blade's Laser Social a consistently well-raceived over a three formats.

	2 83
	915
Leser Squed Blade Arrage PC, ST	50
	9 94
	89.5
	89.5
	7.34
	88.7
	6 24
Indianapolis 500 Electronic Arts PC 8	617

Bubbling under Satman - the Movie Market Manson, it Came From the Desert and Battle Squarton

#### THE 8-BIT COUNTER

There are some great value oudget games around at the moment, with four liftion have at u2.95 rated at over 80%. Operan's Operation Thunderboth is proving a huge succession all forms to

Grant Escape	Hit Squad	C84 Sp	89.33
Dizzy III Fantasy World	Code Masters	CPC Sp	88 25
Operation Thunderbolt	Dosan	CPC, Sp	86 21
Renagada	Ht Squad	CPC C64 Sp	64
Untouchables	Doean	CPC C64	83
Hard Drawn	Domark	CPC Sp	83 75
Saring	Mastertronic	CPC C64, Sp	81 67
Ping Pong	HI Squad	CPC C64 Sp	78 44
Ghouts n'Ghasts	US Gold	CPC, C64 Sp	77
Turbo Quirun	US Gold	CPC, C64 Sp	77.2

Bubbling under Toolsn Dan Dans III, and Footballer of The Year II

## TITLE Allocourse Allocourse Allocourse Allocourse Allocourse Burborne AMIGA Bormer Tiddge Pleyer 2150 Gallacaca Brude Lee Lavis Budokan Special Bood Can are Cemental Europe Cally Double House Flooring Can are Cemental Can are Can

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\*\*\*\* ATARI LYNXS Lycal System Marie Power Supply Blue Lightness Californiae German Electrons German J. Zenskoom

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## HOW TO

## the ACE Stockmarket.

a you want to get your hande on come of those Stockmerket £150 jackpot? Here are a few tos

First, the prizes themselves. There exactly right) to predicting the top three ex muchine categories (CPC, Amga, ST, C64, PC, Spectrum) and the top three software houses (again in the correcto order) on the Company Counter

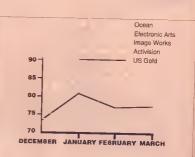
Remember - you don't have to get. them exactly right to win a prize, you just have to be the closest. If, however, you get all three right and in the correct order. worth of entware. Any drawe are decided by pulling the tied entires out a het

Of course, predicting next month's positions isn't easy. However if you're keen on games you'll stand good chance. able bet that FTL's Chape Strikee Back ratinge Straightaway you've got one potential entry for the top five Looking ahead to next month, (and we it give you a tip here) most magazines will be covering Mike Singleton's Michweiter, which again is bound to get high marke. Will they be high enough to push it into the top three? Time wall tell

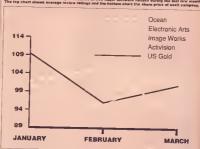
Of course, if you're really keen, you panies by looking back over pest iesues of the Stockmarket and trying to proposil putterns. However, we ve tried this purselies (see the tables on this page) and II one NO easy to perceive patterns. The best way to win a prize is not to gat involved in all sorts of complicated calculation, but the following month and then draw up your

Arst a word about deadlines. The ACE Stockmarket figures are compled during of each month and appear in the issue that comee out on the first Thursday of the following month, So this month a figures were out together between 4th and the 18th of January

So get to it: the form s on page 112.



These charts show the erratic performance of five major software houses during the last few months. The top chart shows average review ratings and the bottom shart the share price of each company.



## ACE DEALERS

WE KNOW HOW IT IS - YOU'VE SPENT MOST OF YOUR HARD EARNED DOSH OVER CHRISTMAS AND THE NEW YEAR. AND NOW ALL THERE IS LEFT TO DO IS HUDDLE ROUND A CANDLE LOOKING MISERABLE. OF COURSE THE OCCASION-ALCHUNK OF DRIED BREAD AND CUP OF DIRTY RAINWATER ARE NO CONSOLATION - YOU'D MUCH RATHER HAVE THE LATEST SOFTWARE SENSATION INSTEAD. SO HOW DO YOU FIND THAT UNIMISSABLE BARGAIN OR SPECIAL OFFER? LOOK NO FURTHER THAN THE ACE DEALERS PAGE OF COURSE...

#### ACE - GREAT DEALS

Many retailers are trying to have a breather this month followers the January sales. There are lever games being released and the next but batch of promotions and competitions will probably Easter time

#### VIRGIN SALE Desorte the Isl. the Virgin Games Centre sale con-

brues until the middle of this month, with a whole host of special offers so sale stock has been cleared away, Virgin hopes to have a apaclal aramotion set up with Milerudebaid numbrie as ACF

#### FREE FERRARISI Accolade's model Fer-Test Drive 9 - The Ovel.

costrues, with the Northem Computer Shop cham offering a Matchbex medal our with every copy of the game. All names go allo the prize draw for a Burnen. medel of a 1987 Farrari F40 mounted on a wood-

#### en pinth, complete with SOMEWHERE-OVER THE RAIN-

Computer Shops are elso working on some forthcoming special

and Pendore's Xeromarph Check with your local Computer Shop branch (locations below) for details rard promotion Intest to

ed Randow Islands (now

#### T-SHIRTS AND DRAWS Buvers in Blominghom

and Newcestle should drop into their local brench of Microlyte on Saturday, February 17 Spend over £15 on any Ocean tales in Birmingham on that day and you'll get a Tshirt and poster to no with the same Plus your name will so rdo a draw

#### BUDGET DAY February 17 is a special

with divisiony prizes suniable to be were In Microbyte Navicastia

bents released by Oceani can also buy any 8-bit budget game for just £1. grodel car is also up for grabs in a see-day competities.

#### ACE DISCOUNT Microbyte is also offering

renders of this page at 10% discount on goods bought at any of its sent the yougher below When you make your our chase Happy barriers huntrie?

#### WHERE IT'S AT .... You can find Computer Shop outlets in the Amdate Centre, Menchester;

Newcastie Leeds, Preston, Sunsierland Stockton and Nottleghave Also part of the Computer Shep chain

are the two Gernes Store putlets m Carlisle and Middlesbrough, which stock role-playing

#### puter software There are Microlyte stones in the Amdale Cen-

tre. Menchester: the Broadmarsh Certire, Nettingham Krigate Wakefield the Metro Centre Gateshead the Greenmarket, Newcastle Upon Tyme It's Kirkgate Centre, Bradford, the Bull Ring Centre, Birmingham, and the County Arcade, Leade

Virgin has its Games Centre autlets on Lendon's Oxford Street tol Megastore, and all so 1003 and Bristol, and also in Megastores in Birminehem Srighton Oublin. Esinburgh, Glesgow (at

Leeds and Nottingham One of these must be numr you

All offers and promobons are subject to availability of stock, Although mation is accurate at the time of going to press

#### FREE PUBLICITY!

Attention dealers! Don't keep your promotions, competitions, special offers, etc, a secret Tell us at ACE and we'll tell everybody else



## PINK PUZZLERS

#### PUZZLE RESULTS

First off some results and Prize Puzzle 16 was CIN Chin Chaung St. Ams, Notine £10 will shortly be winding its way to you. Chi. Puzzle 17 never hap pened (papsi), but Mr. K. A. \$1ddlqnl of Chiswick,

and programmers for the

And finally, here was ton entry from Anne-Miniam Maczewski of Hidesheim, West Germore "Why don't you make your forms so small

Well Arme the short answer is that we really

don't mind if you out your competition answers on a postcard rather than the standard form. As long as mation that is rebuilded

problem for us. Obviously

(unless of course you ward to copy it out in

#### SOLUTION TO PUZZLE 20

2 teddy bears at £8 85 nach I Christmes hamper at £17.59 and I shat & tie set st £11 00 in the listing each of the presents is assigned its once

calculates every possible combination of gifts possible

Each tono Descept for the last one) starts with a value of zero and extends to the maximum number of gifts of that noce that can be brought for one hundred pounds. The final loop, which represents the number of shirts bought

### card? It would cost me

Set by Archia Medas The multiplication was The cover date of this issue is March, but if you were quick enough to the newsagent you should have munarred to obtain your copy in time for Valentine's Day. So Led year on February 14th, I received the following

MARCH '90 PRIZE PUZZLE

VAI FNTINE = ?

Enclosed within the card were the following instructions

smoly substitute each of the letters in the word Valen-

tine" for a digit - a different digit for each different letter.

the same dust where any letter is repeated if you have

whole number. There is only one possible solution provid-

Unfortunately, is the intervening twelve months (ive for

noteen just which of the digits was represented by E'

But, even so, you should still be able to solve this puzzle

ed that you replace the E' with a

Can you find the aguare root of Valentine? To do so

PIRVER-1508 20 TEODY\*IIIS 50 BISE=599 EPME=2123 50 **BBTTLF=947** 60 RRMPER-1759

SR18T-1100 FOR P-D to 10000/PIRYER FOR T=0 to 10000/TE00V

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1.40 FOR H-D to | ODOD/SOTTLE 150 FOR H-0 to 10000/HBMPER 16B FOR \$=1 to 10000/SHIRT

2 - POPL BUTE + TOTERRY + DOBLSE + S\*GRME+E\*BOTTLE+R\*RRMPFR+\$\*\$H(BT 1F 2-10000 THEN PRINT P;" ";T;" ";0;

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The winner is David Wood Cleethorpes, Sth Humber

## **SOLUTION TO PUZZLE 19**

The problem involved finding two four-deat numbers which produced a long multiplication which had the digits 2 to 8 running disconally downwards from the top right Ones 3 to 7 of the multipliaction) comprised five digits

Because the dusts '2' and 3' in the log two lines are fixed it is only necessary to consider the remaining three cigits in each of these lines in the program (his is done milnes 100 and 120, the known digits being inserted nto the correct positions by means of the two string van-

values and are stored in the strings CS to LS in turn. As each is computed it is leated to ensure that it has a length of live characters, the third character in each case agreeing with the known digits on these lines of the sum tested for the presence of the digit '8" in second place

#### 100 LOB 8-100 TH 999.R\$+STH\$181

- 110 PI-PI-12
- 120 FOR R-100 TO 999-85-STR\$(8)
- 130 #\$-1FFT\$(#\$.2)+131+#1GRT\$(#\$.11
- 148 CS-STRSINGURSI-BBLIMURS(BS.4.311)
  - IF LENICSHOS THEN 300
- 150 II MIDSIES 3.110" 4" THEN 500
- 160
- 170 OS-STRSIBBLIBSIPHBLIMIOSIBS.3.1111
- 180 IL LENGOS JOS THEN 300.
- 190 IL MI05/05,3,1 ko '5" THEN 300
- 200 ES-STHSIURITHSI-BBLIMIOS(85.2.1))) 21.0 IL TEN(F\$)OS THEN 500
- 220 IL MIDS(ES.3,1)O'6' THEN 300
- F\$+S1R\$(URL(R\$(\*DBL(M(D\$(B\$,1,1))))
- IF EFNIFSTOS THEN 300
- 250 1L MIDSIES, 5,1 JO'7' 1RFN 380
- GS-STRS(BBI (MS(\*UNI (US) IE EENIGSION THEN 300
- IF MIDSIGS, 2, (30° B" THEN 300 PRINT BS: 1:85
- 200 MERTE
- 31.0 NERI R

The winner is **Gernan Liyan** Kettering, Northants

#### MARCH '90 PRIZE PUZZLE ENTRY FORM

I NAME ...

LADDRESS: ...

TELEPHONE: ...

ANSWER .... Send to March '90 Prize Puzzle, ACE Magazina, Priory Court, 30-32 Farringdon Lane, London, EC1R 3AU Entries should be postmerked no later than 28th Fabruary ( 990. \_\_\_\_\_\_ WORLDWIDE SOFTWARE W RLDWIDE WORLDWIDE SOFTWARE 1 BRIDGE STREET 106A CHILWELL ROAD, BEESTON GALASHIELS · SOFTWARE · NOTTINGHAM TD1 1SW NG9 1ES INTELLIGENCE
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Solid 200 Maria 200 Ma | CREDIT CARD ORDER TELEPHONE LINES | South Mildsonta | Wales ANGA STOK FORMAGON - CHADOON WASTER OWN JORGE BILDER OF THE ARE SHOULD BE SHOULD B







## PINK

#### BANK ON ANCO

Here d is, the moment you've all been holding you breath for the result of our competitions celle-brising the launch of Ancos loote game. Player if Manager, the successor to the outside worked facilities the outside of the control of the control

Anyway, the lucky winner of the Sony CCDF250. Camcorder is Alex Eddleston Blackburn, Lancs in addition, Raight Burton, Obermedon, Switzerland will be receiving a Liver pool shirt, and James Tarston Wirrall Merseyside a copy of the Player Manag-

## GOTTA NANO

And now, another knee trembler – the woner of the brand sparking new Alan Lynu hand held console. The incredibly lucky likely to be mobbedly person is war for it. Mr... Richard Hall. Thames Dri.

#### TNE

INQUISITION
Thanks for the great
response to our 20 Ques
dont readers survey in th
November 89 issue Tits
results were quite revelbonary and we will be
using them to tailor the
thangazine to meet your

requirements As a mark of greathode the following three people have inconved games for their machines. Mr G Shuffle bothsim, Workson, Notis, Josephan, Warkson, RA. Roetron Blackburn, Lancs

#### COMPUTER

The Educacy ten people as the table years of baggs can ket halong some on baggs can ket hang go the wave to cateform their contributioning present water to cateform their contributioning parse through factor Stewe E Buttern Mindle Production Resist. Resist Resist Substitution South State State (San Mindle South State State

M McSenggan

#### STRICING OFF WITN PRIZES

The ten people fisted ballow will shortly bu receiving 1-Sarthy and posters for U.S. Gabris garner Strider: Simon Bauter, Fissond, Mindoester, Michael K. Lysone, Widnes, Cheshre-Saran Miller, Carbalton Surrey Mark Claudow Augeley, Staffs Richard Baumforth Hiller, Wend

Yorkshire Robert

Gowans Chigned Row Esses John Waterhoise, Chester Mark Ban, Blackpool, Linnes D Cewle Cleethorpes, S Hamber side David Richlandson, Sutton-NAthfield Notes

#### FOOTBALL CRAZE These ten lucky peccele will

be recewng Subbuleo sions, who are delebrating cer Jasen Carty Wood Green, Landon John Evans Merseyside Graham Clarka Melicham Witdow Ned Stawert Ited Hant S. Barkes Visterits, Sweden Gilles Newman Ipsech, Suffoli Calls Owatt Carryson Gaymedd, Mark Shaw Cantock, Staffs, James Solomen Willagley, Wittds Simon Parry Bodorgon, Gwynedd

#### GOLDEN

GRANDSLAM
Alter eltering our need Grandform Gwessey, which celebrates the baunch of the Saret and Grassee Fase Que Game, Raph Riston of Oberte-dee, Switzerland, will soon be the proud possession of a match qualify hoofbal taged by Saret and Grassee the following five people will review the Saret and Grassee based game of Aliala Homel Hempdand, Herlis Ram Wahling, Wossenster C. J.

Beaument, Yarm, Cleve land, David Deens, St Albans, Herts, Ian Skidmore, Recetam, Notice

Abans, Herts, Iau Skidenore Bingham, Nots Meanwhile, book at the ronch, this facily que tot get the Sant and Greavise computer gams Robart Barrington List stars Sulfir Andrews

Creavise computer games Robert Barrington Little ster Stalls , Andrew Reborson Bidelord, N Devon Ross Higglise Widerbindge, Comwal, Greg Oakes Solbury Solicia, James Solomen W Higgley W Mids

#### GNOSTLY GOINGS ON

Of the brave people who divided to enter our Level 9 Scapeghant compo, the lackowant place sike with copies of the glame Kran Castermans. Dependent Sen Robert Belgum han Wildling, Upholand Lincs; Vipul Selamiki Frost Gabe. Lon-

Stocksbridge Sheffield

#### BRUCE LEE ALIVE AND KICKING!

I hope that Dervisic Martymes of Manor Park. London has got a video recorder because he's just won all of the Bruce Lee videos plus Mindbuspe's great game, Bruce Lee

These len people can karate chop their way libroagh a copy of the glame. Mark Chamberlath, Nenech, Nerfolk David Whiting Knoph, Bridol, Lee Andrews. Cerdif. S. Wale, Celle Yaung, Krinchizoth, Gisgow. Kan Saen. Erding, tan Bermejham, Silman Sookdab Ringstony, Lordon Dyfon W. Seuter. Geynedd, N. Wales, Steven Galfacher. CanHolowenko, Moulton, Northampton David Susmeeln, Esstbourne E Sussex

#### FANTASTIC FERRARIS

Here are the five lucky winners of the remote control Ferrari F40s being given away by Domark to celebrate the launch of Hard Drivol Walve also pented their "witty and pertinent" phrisses. Dawid

persons bewold Couldwell Stock storings. Shetheld – Don't drive near a rid mar M. McGwelg, again SI. Andrews, Guernsey – No red Ferrani Drive Atarri Kevin Whitefield Rochester Kenl – Take me on a daring drive, Tony Swinburne West Hampstead – The men't mad fender long. Mr. S. A.

Siddigni Chawack, Lozdon – Divine red Ferran at Domark The the that's all folics!

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## The BLITTER END

## THE SECRET'S OUT!



r is it? Last month's Bitter carned a piece about Steve Franklin of Cormodore with builship dectared the existence of a secret weapon which would keep the Japanese console invasion at bay

Since their, there has been no elaboration from Commodore on what this secret weapon might be fine, it's not David Jensen – that cheque in the picture is for charify, not for repelling the Japaneses [lister, however, has an inking of what could be in the wind.

Punters at this year's CES show toe report.

rounds at this year's CCC attack receivers received in this issue on page 180 were beguled by reports of cartridge software for the C64 This doesn't sound particularly interesting, except that it would enable Commodore to produce at very life cost a small plastic box with a cartridge slot, two joystick ports, a wideo outlet, and a power sociant.

This box would run games like Boulderdash, Impossible Mission, Ette, and Mercenary Welt, it would it the programmers of some of these titles could be persuaded to produce joystick only versions.

Boxes like these are called consoles, and Commodore – if the numours are to be believed – may well think they we got a Ninterido beater on their hands

There are, unfortunately, boo flaws in this philosophy. The first is that for many pointers the word consoler does not mean cheap plastic box with great games anymore. It means not-one-plastic box with state-of-the-art grantics and sound technology and a smaller number of technically generated the set grantice.

The second flow has already been pointed out by Bitter in previous issues. If Nintendo decide to enter the European market land Bitter doesn't believe they will – but more of that another month, they will do so in Force. The company are now in a posterior to GIVE AWAY their NES consolir to everyone who can jump the givese at

Dixons, provided, of course, that the punter pays out £30 for his first game cartindge. From then, Nintendo will reap yet more profits from the sale of further titles.

Faced with the technological snobbistness of

today's console buyer and the sheer weight of the world's largest cash mountain it's difficult to imagine anyone – including Commodore – winning the battle. Stand by for more on this next month.

QED recently showed a TV program which purported to examine the computer game phenomeion. What we got instead was yet another distribe agenst gamesters, who, it appears, are turning the Points to custand by sitting staming at the TV all day.

This is a hit of a view just of A TV innersem.

teling us that witching too much TV is not a good thing? At teast with games you interact with get involved with, and have a degree of control over the medium. With TV, however, you just have to sit and swatow if.

Question if you had to choose a Prime Minister from either the ranks of those who watch Neighbours and Coronation Stheet all the time or from the ranks of those who can demonstrate a high score in Dungeon Master, which group would you favour? Mo contest (Q.E.D.)

On the other hand, perhaps QFD have a point. At CES, representatives of the LHX software industry put up a good show for themselves. Led by someone who shall remain nameless, they charaft themselves into the ground sang fields on the pois and their dispiperand with The Palamino to opperanded owner. Just shows you waltar die of games software can do to the soul.

806-81et

## YANKEE DOODLE!

Boy, have we got a special Issue lined up tor you! Next month, we're send-

ing Intrepld ACE reporters to the US of A to bring you red hot coverage of some of the most exciting games developments on the

West Coest.
We're planning the
Ifinerary now as we go to
press, but we expect to
be providing you with an
exclusive glimpse of
George Lucas' ranch and

the CD-I development projects underway at Lucastilms, Electronic Arts, Cinemaware, and AIM – Americen Interective Media.

Best of elt for some readers, however, will be a sneek peek at tha development work now being carried on by Robyn and Rand Miller of Cyan – the team who brought you

Cosmic Oemo.

Don't miss next month's

ACE – faking you to the
ter trontiers of computer

trontlers of compute enfertainment.

#### Ooops!

Elitter would never be complete without an Ooops or two. Last month the Arcade Pages succumbed to the printer's curse; they were printed the wrong way round! Whoops delsy...



